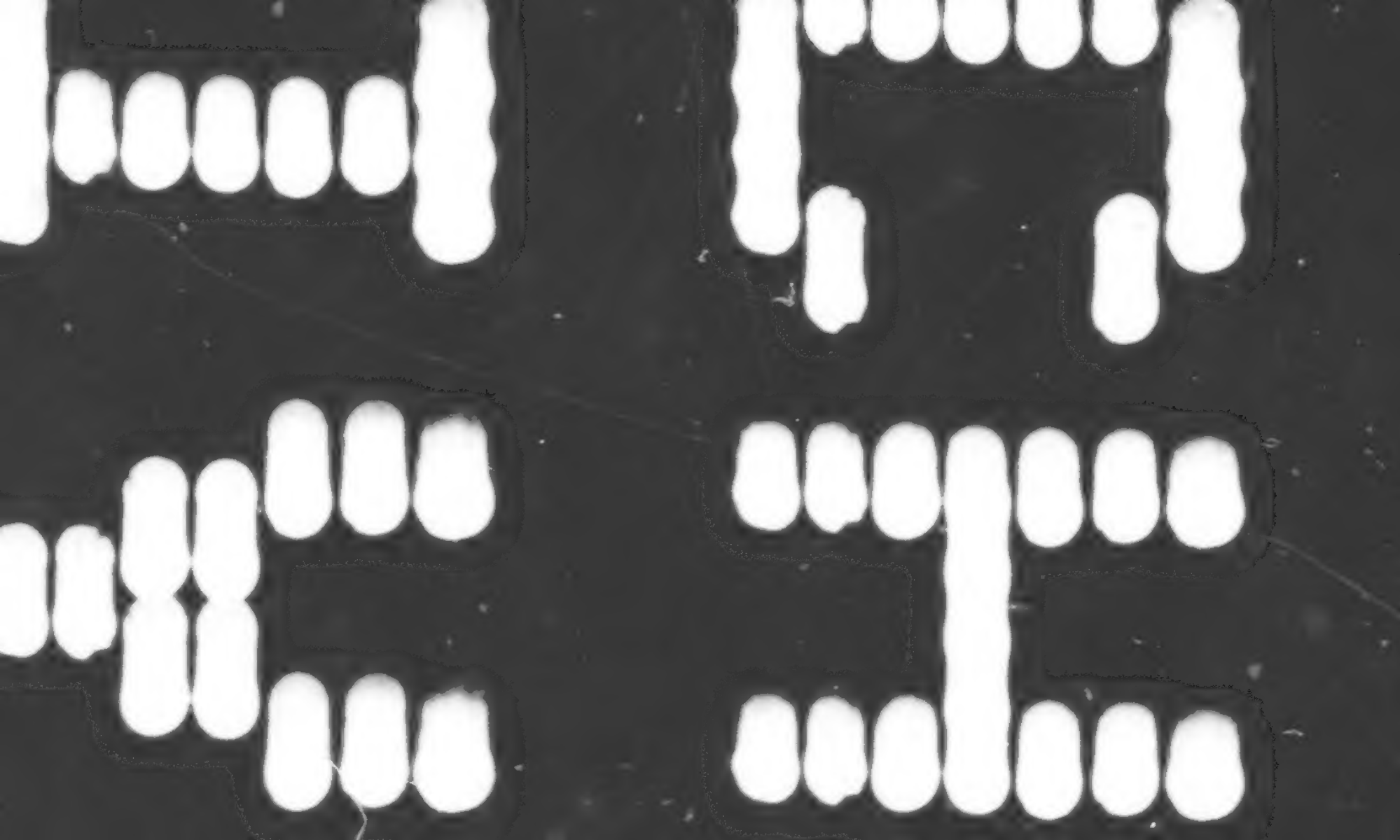

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ABSTRACT

A longitudinal study was conducted at the University of Illinois at Urbana-Champaign (UIUC) to compare the academic progress of 768 students who transferred to UIUC in Fall 1977 from public community colleges in Illinois; 676 students who transferred to UIUC in Fall 1977 from four-year colleges; and 4,220 native UIUC students who were enrolled as continuing juniors in Fall 1977. The study involved: (1) a semester-by-semester analysis of the grade point averages (GPA's), academic status, and retention and graduation rates of the three student groups; (2) a comparison of the GPA's earned by the student groups during the study period in 12 academic areas; and (3) an analysis of the differences in academic achievement registered during the study period by students from each of the community colleges transferring five or more students to UIUC. In addition, a statistical analysis was used to determine predictive equations correlating pre-transfer GPA's with subsequent academic achievement at UIUC. The study report details procedures and limitations; reviews related research; contrasts pre- and post-transfer GPA's; compares the first, second, and third term academic progress of the three study groups; presents subject area and institutional comparisons; and discusses the implications of the study for UIUC policy. Data tables are appended. (JP)

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ED203955

Two-Year Comparison of Transfer and Native Student Progress at the University of Illinois at Urbana-Champaign Fall, 1977 Group

by

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Research Memorandum 80-6

University of Illinois

September, 1980

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RESEARCH SUMMARY
University Office of School and College Relations
Two-Year Comparison of Transfer and Native Student Progress
at the University of Illinois at Urbana-Champaign[1]

Purpose

The purpose of this study is to compare the academic progress of two-year college transfers, four-year college transfers, and continuing juniors (natives) at the University of Illinois at Urbana-Champaign as measured by mean grade point average (GPA), academic status, and continued enrollment through two years after transfer. A secondary purpose is to compare performance after transfer with performance before transfer on the basis of mean GPA. These three groups are also compared in 12 subject matter areas on the basis of mean grade point average during the 1977-78 and 1978-79 academic years.

Summary of Results

1. Thirty-six percent of both the community college and the four-year groups had graduated two years after transfer. More than two out of three (70%) of the native juniors had graduated.
2. Seventy percent of the community college transfers and 77 percent of the four-year college transfers had graduated or continued on clear or probationary status two years after transfer. The retention ratio is higher (88%) for the native juniors.
3. Two-year transfers and four-year transfers had similar transfer GPA's (4.22 and 4.17). Continuing students had compiled a lower division mean GPA of 3.99. Both two-year and four-year transfer students experienced a first term drop in mean GPA. The community college group experienced the greater "transfer shock," with a .62 drop in GPA, accompanied by a decrease of .28 for the four-year group. However, each group maintained or increased its GPA for the three following terms.
4. In the fourth term of the study the community college transfer students still enrolled achieved a mean grade point average of 3.96, which is .31 less than that group achieved before transfer, while the four-year transfer and native students still enrolled achieved GPA's of 4.07 and 4.11, respectively.
5. By the end of the second year following transfer, 12 percent of the community college transfers and 5 percent of the four-year college transfers had been dropped. An additional 2 percent of the community college transfers and 3 percent of the four-year college transfers had been placed on probation and did not continue.
6. The native juniors, four-year college transfers, and community college transfers ranked in descending order respectively on mean GPA in almost all of the 12 subject areas studied during the four terms.
7. The pre-transfer GPA of individual students is a significant predictor of term UIUC GPA, last UIUC GPA, and last UIUC status for the community college transfers. The pre-transfer GPA of individual students is a significant predictor of first, second, and third term UIUC GPA, and UIUC GPA for last term of attendance for four-year transfers.

Policy Considerations

The findings of this study tend to support the continuation of the existing admission policy for transfer students. Retention ratios of .70 and .77 for community college and four-year college transfers demonstrate that students who have performed successfully at the pre-transfer institution continue to achieve at a reasonable level in comparison with native students. Some refinement of the transfer admissions criteria may be appropriate in the future, however, to increase the retention and graduation rates of transfer students.

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[1]This summary prepared by Ernest F. Anderson presents the findings of Research Memorandum 80-6 which is available through the University Office of School and College Relations, 311 Illini Tower, Champaign, Illinois, 61820 (217-333-2032).

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1. Introduction

The number of new transfer students enrolled at the University of Illinois at Urbana-Champaign increased from 1,204 (18% of the new undergraduate students) in the 1969 fall term to 1,717 (23% of the new undergraduate students) in the 1979 fall term.[1,2] In 1979 approximately 17 percent of the total fall term undergraduate enrollment had transferred to UIUC,[3] and approximately 54 percent of the transfer student enrollment had last attended a community or junior college.

These data document the relative importance of transfer students to the total student enrollment and intellectual life at UIUC when compared with beginning freshmen. During the twelve year period from fall, 1968, through fall, 1979, approximately 21 percent of the new undergraduates at UIUC entered as transfer students, while 79 percent entered as beginning freshmen. Therefore, the number and academic achievements of transfer students contribute in a substantial way to the number and quality of graduates from UIUC.

Purpose

The purpose of this study is to describe and analyze the academic progress of community college transfers, senior college transfers, and continuing juniors (natives) at the University of Illinois at Urbana-Champaign, as measured by mean UIUC grade point average (GPA), academic status, and continuing enrollment and

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[1]University of Illinois, Enrollment Tables, First Semester or Fall Quarter, 1969-70. Champaign: Office of Admissions and Records, University of Illinois, October 19, 1970, p. 13.

[2]University of Illinois, Enrollment Tables, First Semester or Fall Quarter, 1978-80. Champaign: University Office of School and College Relations, University of Illinois, February, 1980, p. 20.

[3]Ernest F. Anderson, "Transfer Student Enrollment at Urbana-Champaign, Fall Semesters, 1978 and 1979." Champaign: University Office of School and College Relations, University of Illinois, Memorandum dated 1-7-80 Table 1.

graduation (collectively termed 'retention') through four terms, or two academic years, after transfer. A secondary purpose is to compare the academic achievement of each group after transfer with that group's performance before transfer on the basis of mean grade point average.

The three groups are compared in twelve subject matter areas on the basis of mean grade point average during the four terms surveyed by this study. Differences in academic achievement and graduation rate of transfers from individual community colleges with five or more new transfer students in the 1977 fall term are also reported and analyzed. The study analyzes the relationship between the mean change in grade point average from pre-transfer GPA to UIUC GPA for each community college and the retention and graduation rates for the transfers from that institution to test whether or not there is a significant difference in the effectiveness of transfer grade point average as a predictor of retention and achievement among various community colleges. Finally, the effectiveness of pre-transfer GPA as a predictor of retention (including graduation) and UIUC GPA each term, last term GPA, and final status is tested for the community college transfer group and for the four-year college transfer group through the use of the Pearson Product-Moment Correlation Coefficient.

Method

This study provides a description and analysis of data for two groups of transfer students and a comparison group of UIUC students who earned all of their college credit at UIUC. Community college transfers in the study include all the new and readmitted students to UIUC for the 1977 fall term who completed twelve or more semester hours prior to transferring and whose institution of last attendance was a community or junior college. This group is comprised predominately of students who transferred from public community and junior colleges in Illinois. The population of 768 community college transfers entered UIUC with a mean

pre-transfer grade point average of 4.22 (A = 5.00). Based on a random sample of 125 students, it was estimated that the group completed an average of 59 semester hours (approximately two years) of transfer credit per student prior to enrollment at UIUC.

Transfers from four-year colleges and universities include all new and re-admitted undergraduate students to UIUC for the 1977 fall term who completed twelve or more semester hours before transferring and whose institution of last attendance offers at least a baccalaureate degree. This population of 676 students entered with a mean pre-transfer grade point average of 4.1 (A = 5.00). This group completed an average of 55 semester hours of transfer credit per student; this average is similar to the average hours of transfer credit (59) completed by the community college student before transfer.

The native students (comparison group) include 4,220 fall, 1977, continuing juniors who entered UIUC as beginning freshmen and who successfully completed at least 60 and less than 90 semester hours at UIUC without receiving transfer credit. Continuing juniors were selected for the control group because the majority of the transfers to UIUC have completed transfer credit which places them at or near the junior class level. The University of Illinois mean GPA earned by these students before selection to this group was 3.99 (B = 4.00). Even though this group is utilized as a basic control, it should not be assumed that the three populations are matched with respect to the academic variables known to make a significant contribution to college performance; i.e. ACT score and high school percentile rank in class. It is estimated that the native group has completed an average of 63 semester hours, making it likely that this group will have a higher graduation and retention rate after four more terms than the transfer group.

Data for this study are based on the final Student Record Master Tapes for fall and spring terms for the 1977 fall term through the 1979 spring term as reported

in the Community College Transfer Student Summary of Progress Reports prepared for the Office of Admissions and Records. Graduation during the 1978 and 1979 summer sessions are included in the retention rates. The confidential Community College Transfer Student Summary of Progress Reports list the following data for individual community college and four-year transfer students: name, UIUC college, curriculum, class, pre-transfer GPA, transfer hours, UIUC term GPA, and end-of-term status. The summary page includes the following comparative data for individual community colleges: mean and median pre-transfer GPA, mean and median UIUC term GPA in twelve subject areas and for all courses combined, and student status (number graduated, number on clear, number on probation, number dropped, and number who withdrew). These same data are presented in summary form each term for all community college transfers, all four-year transfers, and all continuing juniors (natives).

Each community college transfer and each four-year college transfer was tracked from term to term for four terms as a basis for verifying the academic status of each student at the end of the 1978-79 academic year. Students on clear or probationary status at the end of a term who failed to re-enroll are reported as "left on clear" or "left on probation" in the final summary so that each individual is accounted for in the two transfer groups. Continuing term to term academic status data were not available for individual native students; therefore, some error (less than one percent) in the net count of native students listed as "dropped" or "withdrew" is possible, as some students could have been readmitted and counted in another status category or continued as undergraduates after graduation.

Three academic status categories were utilized in the calculation of a retention ratio for each group. The retention ratio represents the proportion of each original 1977 fall group which had graduated or was still enrolled at the conclusion of each term. This ratio is the total numbers of students in a given

group who have graduated or who were eligible to continue on clear or probationary status divided by the total number of transfers comprising the fall, 1977 group.

The study analyzes the relationship of differences between pre-transfer and post-transfer GPA (drop in mean institutional GPA) and the retention ratio of students from that institution two years after transfer. The Pearson Product Moment Correlation Coefficient is utilized to test whether or not the observed correlation is significantly different from zero. Community colleges with fewer than five transfer students are omitted in this analysis. No individual institutional analyses are performed with four-year college transfers, as these transfers are not identified by institution of last attendance in this study.

Analysis of individual student performance as measured by pre-transfer GPA and three measures of academic success at UIUC by community college of last attendance was conducted to determine whether differences in academic achievement and academic status related to pre-transfer GPA existed among the various community colleges. The correlation coefficient (r) was calculated for each of the thirty-seven community colleges between one predictor (X_1 = pre-transfer GPA) and six outcome variables (Y_1 = first term UIUC GPA, Y_2 = second term GPA, Y_3 = third term UIUC GPA, Y_4 = fourth term UIUC GPA, Y_5 = Last term UIUC GPA, and Y_6 = final status at the University of Illinois.) Status categories were coded in descending order of achievement as shown below:

Status	Code
Graduated (G)	7
Enrolled on Clear (C)	6
Left on Clear and did not re-enroll (LOC)	5
Enrolled on Probation (P)	4
Withdrew during a term and did not re-enroll (W)	3
Left on Probation and did not re-enroll (LOP)	2
Dropped (D)	1

The above analyses were completed for a random sample (N = 125) of both the four-year transfers and an equal number of community college transfers; sample

size fluctuates from term-to-term, as some members of the original sample did not re-enroll in subsequent terms. No analysis of native performance was conducted because of lack of individual student identification in the printed data provided for this study.

Limitations

This study describes, analyzes, and compares the success and performance of two groups of transfer students and a selected group of continuing native students similar in class level to the transfer groups. These three groups are not assumed to be "matched" in statistical terms, but are relatively equal on pre-transfer GPA for the transfer groups, while the mean GPA for the UIUC native students (the control group) is slightly lower than for the two transfer groups. Even though comparisons are made among transfers from various institutions and types of institutions of previous attendance, this study is not intended to serve as a basis for inference about the independent effect(s) of a specific institution or type of institution. The students who transferred from the various community colleges and four-year colleges are not matched on such significant variables as American College Test (ACT) composite score or high school percentile rank (HSPR). Native student data are reported as group data only. This study does, however, provide insight into individual and group performance by these various sub-populations of students at UIUC.

Related Studies

A recent three-year follow-up study by Lach[4] of 10,504 fall, 1973 community college transfers to 24 Illinois four-year college and universities concluded that...

> "...during the first year the grade point average of the transfer students dropped from 2.8 (B on a 4 point

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[4]Ivan J. Lach, "Summary of the Statewide Follow-up Study of Community College Transfer Students in Illinois." Springfield: Illinois Community College Board, September 19, 1978, p.1.

> scale) at the community colleges prior to transfer to 2.65 at the senior colleges. By the end of the second year, however, the grade point average of the transfer students at the senior institutions was back to a 2.8 average. ...The results of this study indicate that Illinois public community college transfer students are performing well at the senior colleges. The large majority of students were able to remain enrolled at the senior institutions and the overall grade point average of the transfer students at the four-year colleges and universities was a B average. At the end of three years, almost one-half of the students have completed the baccalaureate degree and another one-fourth of the students were still enrolled pursuing the four-year degree. Since a large number of students transferred prior to completing the associate degree at the community college and because many students are enrolled at the four-year colleges on a part-time basis, many more of those students are expected to complete the baccalaureate degree in another year."

The report from which Lach's summary statement was developed concluded that "at the end of the third year, 73.2 percent of the transfer students for whom data were obtained either graduated or were still enrolled and actively pursuing the baccalaureate degree."[5] That same report showed that 45.6 percent of the transfers to UIUC for which data were obtained had graduated by the end of the 1976 spring term. However, the narrative failed to alert the reader to the fact that data were obtained for only 423 of the 745 fall, 1973, UIUC transfer population for the spring, 1976 semester. The actual graduation rate for the 745 fall, 1973, community college transfers was 59 percent as reported by Anderson in 1977.[6]

A 1979 study by Anderson and Beers compares the progress of the 1976 fall transfer students and native juniors during the 1976-77 and 1977-78 academic years.[7]

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[5]Illinois Community College Board, A Statewide Follow-up Study of Students Who Transfer from Illinois Public Community Colleges to Four-year Colleges and Universities. Springfield: Illinois Community College Board, D-350, September, 1978, pp. 30-31.

[6]Ernest F. Anderson. "Three-year Comparison of Transfer and Native Student Progress at the University of Illinois at Urbana-Champaign, Fall, 1973 Group." Champaign: University Office of School and College Relations, University of Illinois, Research Memorandum 77-9, August, 1977, p.7.

[7]Ernest F. Anderson and Philip G. Beers. "Comparison of Transfer and Native Student Progress at the University of Illinois at Urbana-Champaign, Fall, 1976 Group." Champaign: University Office of School and College Relations, University of Illinois, Research Memorandum 79-6, December, 1979, pp.12-14.

This two-year follow-up of 678 community college transfers, 505 four-year college transfers, and 4,574 natives reported that 71 percent of the community college transfers and 79 percent of the four-year college transfers had either graduated or were eligible to continue on clear status two years after transferring while the comparable figure for the natives was 88 percent. Community college transfers did not perform as well after transfer to UIUC as they did at the community college before transfer. This group experienced a first term drop in GPA of approximately .5C and did not completely recover that drop during any of the terms of the two-year period covered by this study. However, the four-year transfers performed only slightly lower after transfer than they did before transfer, while UIUC natives improved their performances (as measured by change in GPA from initiation of this study) in each of the four terms. Slightly more (79% vs. 71%) of the four-year college transfers than community college transfers were retained for the two-year period. UIUC natives achieved a retention ratio of .88. Forty percent of the community college group and 45 percent of the four-year college group had graduated two years after transfer.

A three-year comparison of transfer and native student progress at the University of Illinois at Urbana-Champaign for the fall, 1973, Group was reported by Anderson in 1977.[8] This study of 817 two-year transfers, 113[illegible] four-year transfers, and 3542 natives reported that 59 percent of the two-year transfers had graduated, seven percent were continuing on clear, nine percent had been dropped, and 24 percent had withdrawn or left for various reasons. Sixty-two percent of the four-year transfers had graduated, seven percent were continuing on clear, four percent had dropped, and four percent withdrew (information concerning those natives who left on clear or left on probation were not available). The retention rates for the two-year transfers, the four-year transfers, and the natives were

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[8]Ernest F. Anderson, Research Memorandum 77-9, pp.4-7.

.67, .69. and .85, respectively.[9] Two-year transfers achieved a first term UIUC GPA approximately .51 less than those students had achieved before transfer. After six terms these transfers were achieving UIUC GPA's (3.30 on a 5.00 scale) approximately .28 less than their pre-transfer average.

Studies by Anderson and Beers[10] and by Anderson and Henderson[11,12] comparing community college transfers, four-year college transfers, and native juniors at the University of Illinois at Chicago Circle (UICC) based on the Summary of Transfer Student Progress Report calculated and replicated success and retention rates for that campus. The most complete study is a four-year follow-up comparison of transfers and natives beginning in the 1973 fall term. Approximately 29 percent of the community college transfers, 32 percent of the four-year college transfers, and 66 percent of the natives had graduated four years after the initiation of the study. The retention ratios were .32, .36, and .70, respectively, for the three comparison groups. Community college transfers experienced a .47 drop in first term GPA compared with their pre-transfer average, whereas the four-year transfers experienced a gain of .06; natives dropped by .01. Community college transfers performed below their pre-transfer average in each of the sixteen terms reported in this study.[13]

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[9] Ibid, pp. 17-18.

[10] Ernest F. Anderson and Philip G. Beers, "Comparison of Transfer and Native Student Progress at the University of Illinois at Chicago Circle, Fall 1978 Group." Champaign: University Office of School and College Relations, University of Illinois, Research Memorandum 80-4, July, 1980.

[11] Ernest F. Anderson and Stanley E. Henderson, "Comparison of Transfer and Native Student Progress at the University of Illinois at Chicago Circle, Fall, 1976 Group." Champaign: University Office of School and College Relations, University of Illinois, Research Memorandum 78-3, March, 1978.

[12] Ernest F. Anderson and Stanley E. Henderson, "Four-Year Comparison of Transfer and Native Student Progress at the University of Illinois at Chicago Circle, Fall, 1973 Group." Champaign: University Office of School and College Relations, University of Illinois, Research Memorandum 79-1, March, 1979.

[13] Ibid, p.25.

A statewide study of 1973 community college transfers to Illinois senior colleges and universities shows that one year after transfer 78 percent were on clear, 10 percent were on probation, 8 percent had withdrawn, and 3 percent had been dropped.[14] All community college transfers achieved a cumulative GPA of 2.65 on a 4.00 scale for the 1974 spring semester. The mean GPA increased to 2.80 in the spring of the second year, which is equal to the pre-transfer GPA for the students in the study. Two years after transfer, 77.5 percent of the students had graduated or were in good standing and pursuing the baccalaureate degree. Twenty-two percent had graduated two years after transfer.[15]

Wermers,[16] in a comparison of transfer and native student achievement utilizing analysis of covariance to equate the groups, reported . . .

> "... that junior college transfer students rank lower than four-year transfer students and natives on ACT, HSPR, and SES. Junior college transfer students also scored lower than the four-year groups on standard scores achieved on the CLEP General Examination, the common criteria of achievement. Differences between natives and four-year transfers on ACT, HSPR, SES, and CLEP scores were not as clear.
>
> "Difference on mean CLEP scores among the groups diminished when the control variables were applied in the analysis of covariance technique...The results of this study seem to indicate that, generally, students who completed lower division requirements in junior colleges, and then transferred to the University of Illinois progressed academically during the first two years of college at a pace equivalent to students who completed lower division requirements in four-year institutions."
> [Note: ACT (American College Test); HSPR (High School Percentile Rank); SES (Socioeconomic Status); CLEP (College Level Examination Program).]

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[14]Illinois Community College Board, A Statewide Follow-up Study of Fall, 1973 Transfer Students from Illinois Public Community Colleges, Vol. 11, No. 11. Springfield: Illinois Community College Board, June, 1977, pp. 12,14.

[15]Ibid, p. 25.

[16]Donald J. Wermers, "Achievement by Junior College Transfer, Four-year College Transfer, and Native Juniors as Measured by the CLEP General Examinations." Champaign: University Office of School and College Relations, University of Illinois, Research Memorandum 72-5, March, 1972.

In summary, the Community College Board statewide report of 1978 interprets the findings to mean that community college transfers to senior college and universities achieve at approximately the same level after transfer as they did before transfer. In contrast, the evidence presented by the continuing studies of transfer students to the two campuses of the University of Illinois presents evidence which fails to support the conclusions of the statewide study, insofar as these two campuses are concerned. This study provides additional data which may help explain the differing conclusions concerning achievement levels of transfer students.

II. Findings

First Term Achievement

Table 1 presents a summary of transfer and native student progress for the four-term period from fall, 1977, through spring, 1979, excluding summer sessions (except graduation information). A detailed presentation and analysis of the fall, 1977, term is presented in Appendix A for each community college from which five or more students transferred. Individual institutions are identified by confidential code.

The community college group of 768 transfers entered in the fall of 1977 with a pre-transfer grade point average of 4.22 (A = 5.00). This group achieved a 3.6 mean first term GPA at UIUC, which is .62 lower than this group's mean pre-transfer GPA. This drop in mean first term GPA is slightly greater (.06) than the .56 decrease reported by Anderson and Kusick[17] for 526 fall, 1966, term transfers from community colleges. Comparable decreases in first term GPA's from pre-transfer GPA's for community college transfers were reported in 1979 (.59)[18], 1975 (.50)[19], 1974 (.64), and 1973 (.51); in 1972, community college transfers dropped only .39 from their mean pre-transfer GPA.[20]

A total of 676 four-year college transfers entered UIUC in the fall of 1977 with a mean pre-transfer grade point average of 4.17. This group achieved a mean first term GPA of 3.89, a decrease of .28 from the group's mean pre-transfer GPA.

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[17]Ernest F. Anderson and James J. Kusick, "Success of Junior College Transfers at the University of Illinois at Urbana-Champaign, Fall, 1973." Champaign: University Office of School and College Relations, University of Illinois, Research Memorandum 70-10, May, 1970, p. 13.

[18]Anderson and Beers, Research Memorandum 79-6, p. 12.

[19]"Summary of Student Progress, Fall, 1975 Group (unpublished), Available from University Office of School and College Relations, 311 Illini Tower, Champaign, IL

[20]Anderson, Research Memoranda 75-14 (p.4), 77-4 (p.4), and 77-9 (p.4).

TABLE 1

Summary of Transfer and Native Student Progress
University of Illinois at Urbana-Champaign
Fall, 1977 Group

Terms (1)	Two-Year Colleges (2)		Four-Year Colleges (3)		Continuing Juniors (4)	
Fall, 1977						
Number of Transfers	768		676		4220	
Mean Transfer GPA	4.22		4.17		3.99	
Mean First Term GPA	3.60		3.89		4.03	
Change in Mean GPA	-.62		-.28		+.04	
Status:						
Graduated	0	0%	0	0%	0	0%
Clear	561	73%	579	86%	3895	92%
Probation	130	17%	61	9%	218	5%
Dropped	34	4%	11	2%	46	1%
Withdrew	43	6%	25	3%	61	2%
Retention Ratio*	(691)	.90	(640)	.95	(4113)	.97
Spring, 1978						
No. of Transfers Re-enrolled	665	87%	605	89%	4079	97%
Mean Transfer GPA	4.24		4.17		4.02	
Mean Second Term GPA	3.77		3.97		4.08	
Change in Mean GPA	-.47		-.20		+.06	
Increase over 1st Term	.17		.08		.05	
Status:						
Graduated	9	1%	24	4%	257	6%
Clear	528	79%	503	84%	3554	87%
Probation	81	12%	44	7%	174	4%
Dropped	36	6%	15	3%	45	1%
Withdrew	11	2%	13	2%	49	2%
Retention Ratio*	(618)	.80	(577)	.85	(3985)	.94

*Retention Ratio: Proportion of the Fall, 1977 Group which has graduated or completed the term on clear or probationary status

TABLE 1 (Cont.)

Summary of Transfer and Native Student Progress
University of Illinois at Urbana-Champaign
Fall, 1977 Group

Terms (1)	Two-Year Colleges (2)		Four-Year Colleges (3)		Continuing Juniors (4)	
Fall, 1978						
Number of Transfers Re-enrolled	584	76%	528	78%	3624	86 %
Mean Transfer GPA	4.26		4.19		4.05	
Mean Third Term GPA	3.85		3.99		4.11	
Change in Mean GPA	-.41		-.20		+.06	
Increase over Second Term	.08		.02		.03	
Status:						
Graduated	13	2%	27	5%	273	7%
Clear	479	82%	453	86%	3150	87%
Probation	56	10%	31	6%	132	4%
Dropped	20	3%	9	2%	25	1%
Withdrew	16	3%	8	1%	44	1%
Retention Ratio*	(557)	.73	(535)	.79	(3812)	.90
Spring, 1979						
No. of Transfers Re-enrolled	539	70%	484	72%	3229	77%
Mean Transfer GPA	4.27		4.20		4.07	
Mean Fourth Term GPA	3.96		4.07		4.11	
Change in Mean GPA	-.31		-.13		+.04	
Increase over Third Term	.11		.08		--	
Status:						
Graduated	252	47%	190	39%	2420	75%
Clear	234	43%	268	55%	685	21%
Probation	26	5%	13	3%	69	2%
Dropped	19	3%	6	1%	34	1%
Withdrew	9	2%	7	2%	21	1%
Retention Ratio*	(534)	.70	(522)	.77	(3704)	.88

*Retention Ratio: Proportion of the Fall, 1977 Group which has graduated or completed the term on clear or probationary status

TABLE 1 (Cont.)

Summary of Transfer and Native Student Progress
University of Illinois at Urbana-Champaign
Fall, 1977 Group

Term (1)	Two-Year Colleges (2)		Four-Year Colleges (3)		Continuing Juniors (4)	
Summary (End of Fourth Term)						
Graduated	274	36%	241**	36%	2950	70%
Clear (Cont.)	234	31%	266**	39%	685	16%
Pro (Cont.)	26	3%	12**	2%	69	2%
Dropped	93	12%	33	5%	150	3%
Withdrew	61	8%	36	5%	175	4%
Left on Clear	61	8%	71	10%	n/a	n/a
Left on Pro	19	2%	17	3%	n/a	n/a
Total	768		676		4029	
Retention Ratio*	(534)	.70	(519)	.77	(3704)	.88***

*Retention Ratio: Proportion of the Fall, 1977 Group which has graduated or completed the term on clear or probationary status.

**Those transfers (3) who graduated, then continued as undergraduates in other programs, are calculated in "Graduated" classification only.

***Slightly inflated because some graduates re-enrolled and are counted twice.

This decrease was approximately the same as found for the 1979, 1975, and 1974 groups; in 1973, four-year transfers experienced a mean first term decrease of .13, and in 1972, the decrease was .05.[21]

The 4220 continuing juniors (natives) had accumulated a mean GPA of 3.99 prior to the initiation of this study; this group achieved a mean fall, 1977, grade point average of 4.03. The natives, then, achieved an increase of .04 for the first term of the study, when compared to the prior mean GPA for that group during their freshman and sophomore years. The performance of the native group was similar to the natives' performances in 1979 (+.05),[22] 1975 (+.03),[23] and 1972 (+.06); in fall, 1974, the continuing juniors experienced no gain in term GPA, while in fall, 1973, the continuing juniors decreased .03 from that group's mean accumulated GPA at UIUC.[24]

The mean pre-transfer GPA's and the mean UIUC GPA's for the three study groups are illustrated in Figure 1 for each of the four terms. Comparison of the three groups in Figure 1 shows that community college transfers entered with a mean pre-transfer GPA somewhat higher than the continuing juniors, and slightly higher than the four-year college transfers; their first term UIUC performance, however, was approximately .6 lower than their previous achievement, .3 lower than the four-year college transfers' first term UIUC GPA, and .4 lower than the natives' fall, 1977, UIUC grade point average.

Further analysis of group performance variation for the fall, 1977, term shows that there was a greater proportion of community college transfers who

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[21]Anderson, Research Memoranda 79-6 (p.12), 75-14 (p.4), 77-4 (p.4), and 77-9 (p.4).

[22]Anderson and Beers, Research Memorandum 79-6, p.12.

[23]"Summary of Student Progress, Fall, 1975 Group" (Unpublished). Available from University Office of School and College Relations, 311 Illini Tower, Champaign, IL

[24]Anderson, Research Memoranda 75-14 (p.4) and 77-9 (p.4).

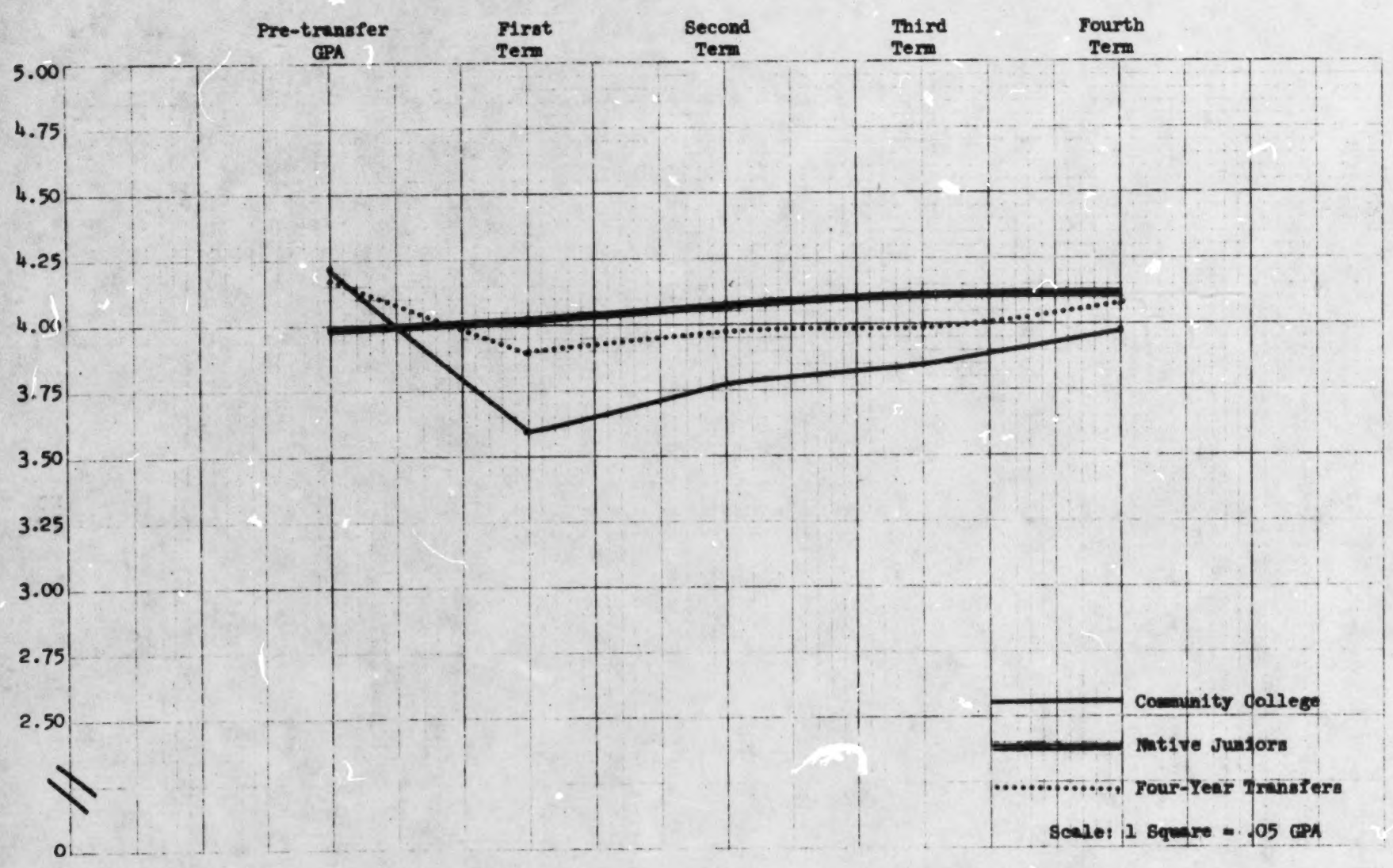

FIGURE 1. Community College Transfers, Four-Year Transfers, and Native Student GPA by Term

were placed on probation or dropped at the conclusion of the term than with the other two groups. Table 1 reports that approximately one-fifth of the community college group were either on probation (17%) or dropped (4%), while comparable figures for four-year college transfers were nine percent on probation and two percent dropped. The proportions were even lower for natives, at five percent and one percent, respectively.

Another way of comparing the three groups of students is through the retention ratio. This ratio is calculated by summing the number of community college transfers who have graduated and those who remain enrolled, either on clear or probation, at the end of a term, then dividing that sum by the total number of community college transfers in the original fall, 1977, group. For example, the retention ratio (RR) for the community college group at the end of the fall, 1978, term is calculated as shown below:

$$\text{Retention Ratio } (RR)_3 = \frac{\text{Graduates (G) + Clear (C) + Probation (P)}}{\text{Fall, 1977 Population (N)}}$$

$$RR_3 = \frac{G(1 + 2 + 3) + C_3 + P_3}{N_1}$$

$$RR_3 = \frac{(0 + 9 + 13) + 479 + 56}{768}$$

$$RR_3 = \frac{557}{768}$$

$$RR_3 = .73$$

Retention ratios for fall term, 1977, were .90 for the community college group, .95 for the four-year college group, and .97 for the continuing juniors (natives). A comparison of fall, 1977, retention ratios with spring, 1978, re-enrollment percentages reveals that even though 90 percent of the community college group were eligible to return for the spring term, only 87 percent actually re-enrolled, which was an additional loss of three percent of the original community college population. The four-year college group lost six percent of the group between the fall and spring terms due to failure to re-enroll. Fewer than one percent of the natives who were eligible to re-enroll failed to do so.

As demonstrated by previous studies, and substantiated by data for the 1977, fall term, a substantial drop in first term GPA has occurred consistently for community college transfers at UIUC. An analysis of factors influencing this drop was not readily available although the phenomenon (which has been termed "transfer shock") may have been the result of difficulties with environmental adjustment. There was a greater difference in the achievement of community college transfers and the other two groups during the first term than during any of the other terms reported in this study.

The cumulative numbers and ratio of graduates, along with the retention ratio, are presented in Table 2 for each group for each of the four terms. The cumulative graduation and retention ratios presented in Table 2 are illustrated for each of the three groups in Figure 5. It is clear that the ability to graduate or continue on clear or probation is greater among the natives than the transfers and greater among the four-year college transfers than among the community college groups.

TABLE 2

Number of Graduates, Cumulative Graduation Ratio, and Retention Ratio by Term and by Type of Institution of Last Attendance
University of Illinois at Urbana-Champaign
Fall, 1977 Group

	C.C. Transfers				Four-Yr. Col. Transfers				Natives (Soph. & Jrs.)			
		Cumulative				Cumulative				Cumulative		
Term (1)	No. (2)	No. (3)	Grad. Ratio (4)	Reten. Ratio (5)	No. (6)	No. (7)	Grad. Ratio (8)	Reten. Ratio (9)	No. (10)	No. (11)	Grad. Ratio (12)	Reten. Ratio (13)
1	0	0	0	.90	0	0	0	.95	0	0	0	.97
2	9	9	.01	.80	24	24	.04	.85	257	257	.06	.94
3	13	22	.03	.73	27	51	.08	.79	273	530	.13	.90
4	252	274	.36	.70	190	241	.36	.77	2420	2950	.70	.88
Total Transfers		768				676				4220		

Second Term Achievement

The mean GPA and academic status of returning community college transfers, four-year college transfers, and native juniors for the spring, 1978, term are reported in Table 1. A detailed analysis of these students and their performance is presented in Appendix B for each community college which enrolled five or more students in the original group. Pre-transfer GPA's were re-computed for the re-enrolled students in each of the three groups. The mean pre-transfer GPA for community college transfer students who remained enrolled changed very little (from 4.22 for all community college transfers to 4.24), and the mean pre-transfer GPA for four-year college transfers who remained re-enrolled for two terms remained the same (4.17). Continuing juniors experienced an improvement of .03, from 3.99 to 4.02, over their mean lower division GPA. Therefore, these data do not support the hypothesis that the transfer students who were low achievers before transfer leave after one term.

The mean second term GPA for community college transfers was 3.77, which was .47 lower than their mean pre-transfer GPA. Their second term GPA was, however, a .17 improvement over their first term GPA (3.60) at the University. Four-year college transfer students' GPA's at the University improved .08, from 3.89 for fall, 1977, to 3.97 for spring, 1978. This mean second term achievement for four-year college transfers was, however, .20 lower than their mean pre-transfer GPA. The continuing juniors achieved a mean spring, 1978, term average of 4.08 which was .06 higher than their mean lower division GPA. Continuing juniors showed a .05 improvement in achievement from fall, 1977. The community college transfers, then, showed a partial recovery from the drop in achievement at UIUC when compared to pre-transfer achievement, as did the four-year college group. Native juniors continued to improve their upper division GPA. One hypothesis which might explain the increase in the three groups' improved GPA is that those students returning for the second term were higher achievers than the total group populations for fall, 1977, term.

Table 3 shows the mean transfer GPA's for those community college and four-year college students who did not return to UIUC for the next regular term. Community college students who were dropped after the fall, 1977, term entered with a mean pre-transfer GPA .37 lower than the total group GPA (3.85 vs. 4.22), and those who left on probation were .15 below the mean pre-transfer GPA (4.07 vs. 4.22). However, the actual difference between the mean pre-transfer GPA of all community college transfers and those who left the university after the first term was only .08. Four-year college students who were dropped after the fall, 1977, term entered with a mean pre-transfer GPA of 3.87, which is .30 lower than that of the total group (4.17); those who left on probation were .21 below the mean pre-transfer GPA (3.96 vs. 4.17). With four-year college transfers, there was a difference of .04 between the mean pre-transfer GPA of all transfers and those who left after one term (4.17 vs. 4.13).

Table 4 reports last term achievement by transfer students leaving the university. The mean fall, 1977, grade point average for fall, 1977, community college transfer students who left after one term was 2.62; this GPA was .98 lower than mean fall, 1977, GPA for all transfers (3.60), was 1.60 lower than the pre-transfer GPA for all community college transfers, and was 1.52 lower than the pre-transfer GPA for the 112 community college students who left after one term. A total of 77 four-year transfers left after one term. These students compiled a mean fall, 1977, GPA of 3.35 (C = 3.00), which was .54 lower than the performance of all four-year transfers (3.89), was .82 lower than the mean pre-transfer GPA for all four-year transfers (4.17), and was .78 lower than the mean pre-transfer GPA these 77 students had compiled.

Data from the tables discussed above support the hypothesis that some of the "transfer shock" (first term drop in GPA) followed by a partial recovery during the second term by the continuing community college group, may be explained by the absence of the "leavers" who were dropped or left on pro during the first term.

Table 3
Pre-Transfer GPA of Transfer Students Leaving the University
by Type of Institution of Last Attendance
University of Illinois at Urbana-Champaign
Fall, 1977 Group

Term and Academic Status	Two-Year Tranfers		Four-Year Transfers	
	No.	Pre-Trans. GPA	No.	Pre-Trans. GPA
(1)	(2)	(3)	(4)	(5)
First Term (Fall, 1977)				
Withdrew (1st Term)	43	4.29	25	4.04
Dropped (1st Term)	34	3.85	11	3.87
Left on Pro (After 1st Term)	14	4.07	9	3.96
Left on Clear (After 1st Term)	21	4.36	32	4.34
Total	112	4.14	77	4.13
Mean Transfer GPA for all Transfers	768	4.22	676	4.17
Second Term (Spring, 1978)				
Withdrew (2nd Term)	11	4.00	13	4.10
Dropped (2nd Term)	36	3.89	15	3.77
Left on Pro (After 2nd Term)	6	3.88	6	4.02
Left on Clear (After 2nd Term)	33	4.24	32	4.05
Total	86	4.04	66	3.99
Mean Transfer GPA for all Transfers	665	4.24	605	4.17
Third Term (Fall, 1978)				
Withdrew (3rd Term)	16	4.16	8	4.21
Dropped (3rd Term)	20	3.76	9	3.62
Left on Pro (After 3rd Term)	1	3.65	1	3.75
Left on Clear (After 3rd Term)	11	4.28	10	4.20
Total	48	4.01	28	4.00
Mean Transfer GPA for all Transfers	584	4.26	528	4.19
Fourth Term (Spring, 1979)				
Withdrew (4th Term)	9	4.39	7	3.73
Dropped (4th Term)	19	4.01	6	3.75
Left on Pro (After 4th Term)	n/a	n/a	n/a	n/a
Left on Clear (After 4th Term)	n/a	n/a	n/a	n/a
Total	28	4.13	13	3.74
Mean Transfer GPA for all Terms	539	4.27	484	4.20

TABLE 4
Last Term Achievement by Transfer Students Leaving the University
by Type of Institution of Last Attendance and Academic Status
University of Illinois at Urbana-Champaign
Fall, 1978 Group

Term and Academic Status (1)	Two-Year Transfers No. (2)	Two-Year Transfers Last GPA (3)	Four-Year Transfers No. (4)	Four-Year Transfers Last GPA (5)
First Term (Fall, 1977)				
Withdrew (1st Term)	43	--	25	--
Dropped (1st Term)	34	1.99	11	1.55
Left on Pro (After 1st Term)	14	2.62	9	2.84
Left on Clear (After 1st Term)	21	3.64	32(31)*	4.14
Total	112	2.62	77(76)*	3.35
Mean U of I GPA for all transfers	768	3.60	676	3.89
Second Term (Spring, 1978)				
Withdrew (2nd Term)	11	3.42	13	3.56
Dropped (2nd Term)	36	2.21	15	2.27
Left on Pro (After 2nd Term)	6	2.64	6	2.75
Left on Clear (After 2nd Term)	33	3.67	32	4.09
Total	86	2.95	66	3.45
Mean U of I GPA for all transfers	665	3.77	605	3.97
Third Term (Fall, 1978)				
Withdrew (3rd Term)	16(14)*	3.59	8(7)*	3.90
Dropped (3rd Term)	20	2.19	9	1.93
Left on Pro (After 3rd Term)	1	1.00	1	2.50
Left on Clear (After 3rd Term)	11	4.00	10(9)*	4.19
Total	48(46)*	3.02	28(26)*	3.26
Mean U of I GPA for all transfers	584	3.85	528	3.99
Fourth Term (Spring, 1979)				
Withdrew (4th Term)	9(7)*	3.57	7(6)*	2.86
Dropped (4th Term)	19	2.14	6	2.25
Left on Pro (After 4th Term)	n/a	n/a	n/a	n/a
Left on Clear (After 4th Term)	n/a	n/a	n/a	n/a
Total	28(26)*	2.53	13(12)*	2.56
Mean U of I GPA for all transfers	539	3.96	484	4.07

*Number in parentheses represents students with reported GPA's used in computing last GPA.

Four-year college transfers seem to be affected to a lesser degree by "transfer shock," as noted by comparing pre-transfer GPA with UIUC first term GPA and by noting gains in mean GPA the second term after transfer. Four-year college group gains may, however, be partially explained by the absence of low achieving "leavers," as was inferred for community college improved GPA's, also. This relationship between improved GPA's and the absence of low achievers at UIUC can be traced for all terms (see figures 2,3,4 and Table 3) for all three groups being studied.

The three groups also differed in retention rates at the end of two terms. As shown in Table 2 and Figure 5, the proportions of the groups which were graduated or continued on clear or probationary status at the end of the second term rank in descending order as follows: natives (94%), four-year college group (85%), and the community college group (80%).

Approximately 12 percent of the community college group were on probation, while only seven percent of the four-year college group and four percent of the native group were on probation at the end of one academic year. A total of eight percent of the community college group, five percent of the four-year college transfers, and three percent of the natives were dropped or officially withdrew during the term. These patterns, combined with the numbers of students from each group which had graduated, and first term retention, resulted in an overall retention ratio of .80 for the community college group, .85 for the four-year college group, and .94 for the natives.

The substantially lower grade point averages of the community college group are, in part, reflected by the numbers of students on probation, dropped, and withdrawn in comparison with the other two groups. There is a lower retention ratio for the community college group when compared with the four-year college group. There is also an observable difference between GPA's of four-year college transfers and continuing juniors, which may help explain the difference in retention ratios here, also.

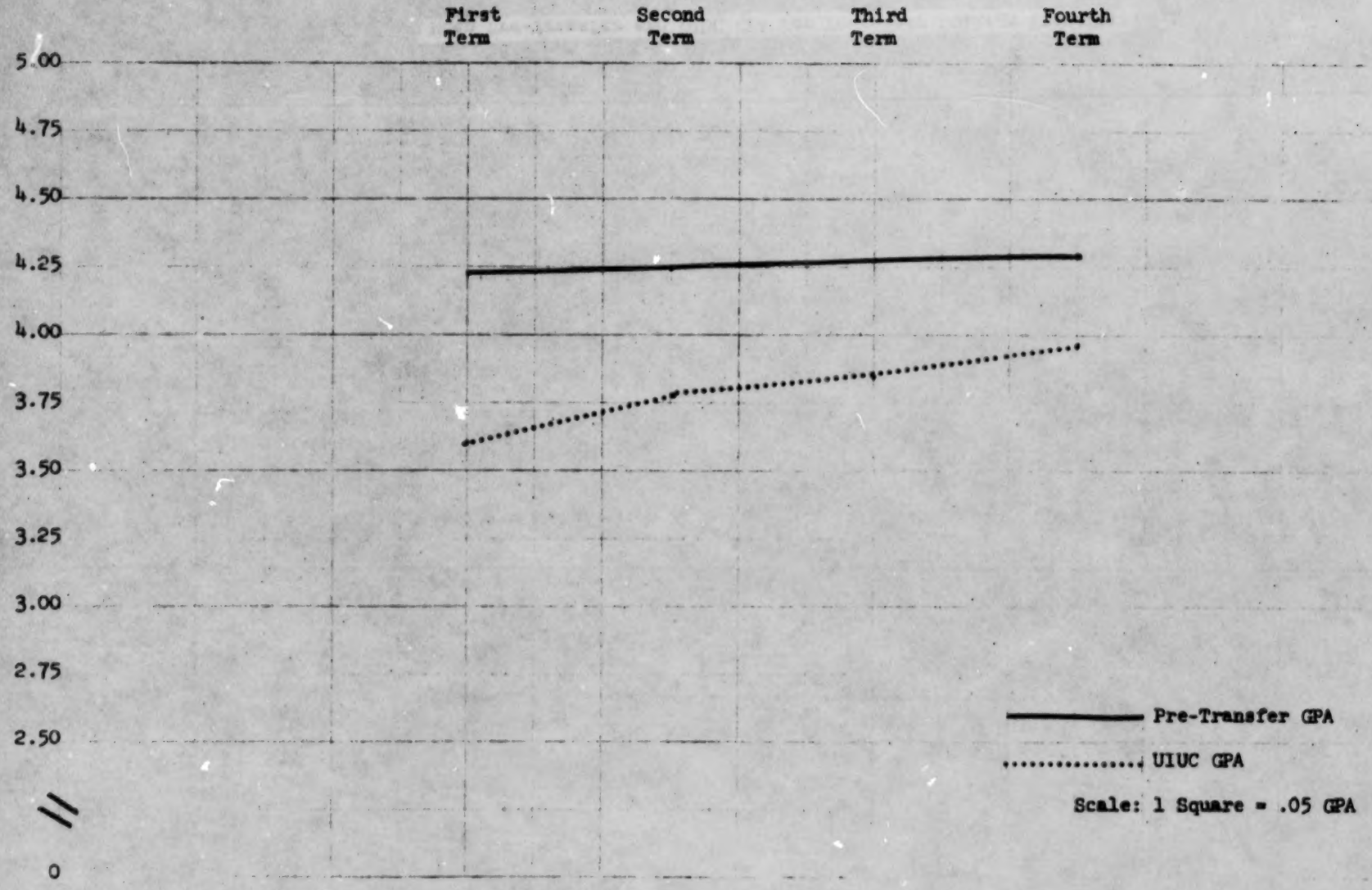

FIGURE 2 Mean Pre-Transfer and UIUC GPA for Community College Transfers by Term

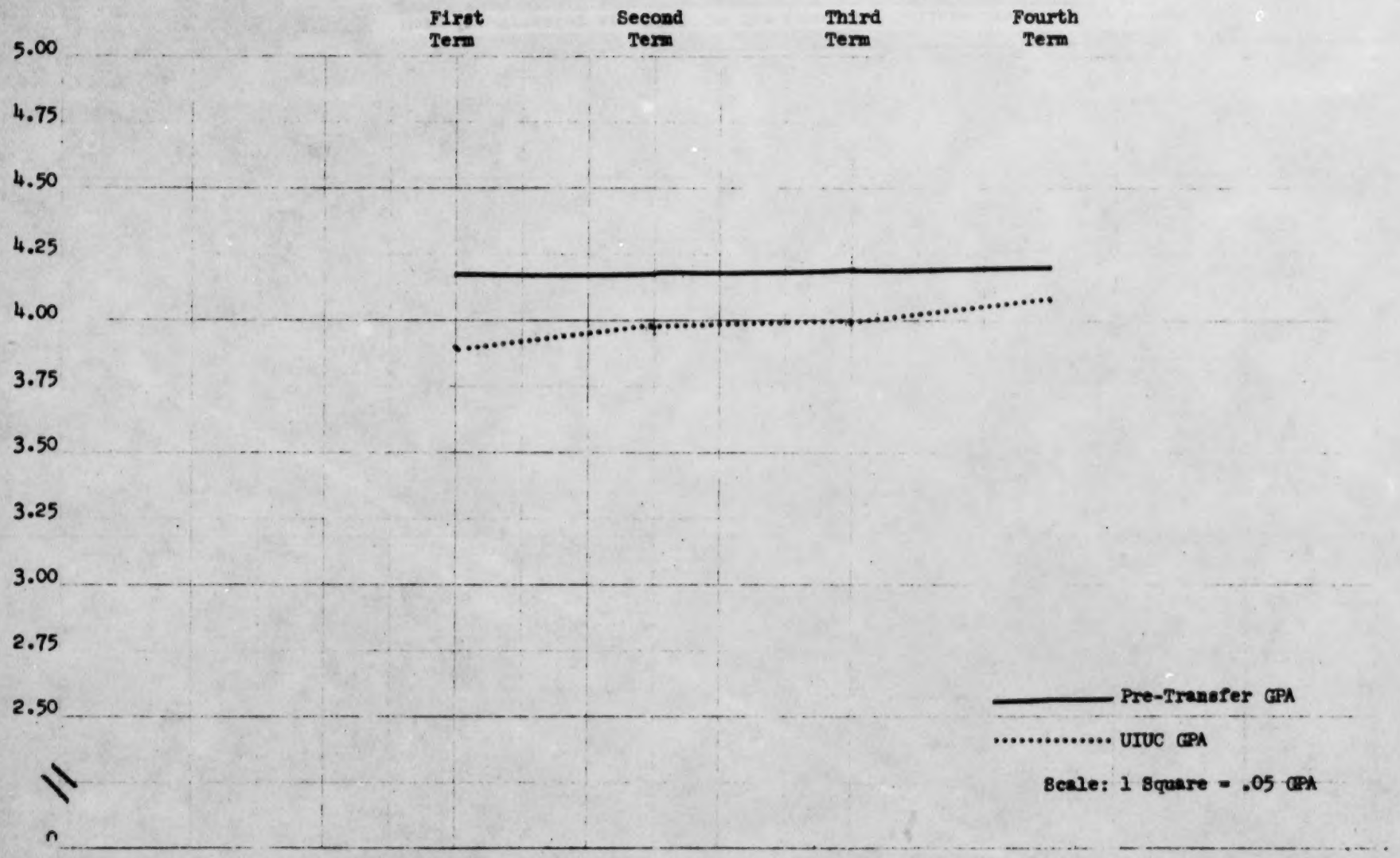

FIGURE 3. Mean Pre-Transfer and UIUC GPA for Four-Year College Transfers

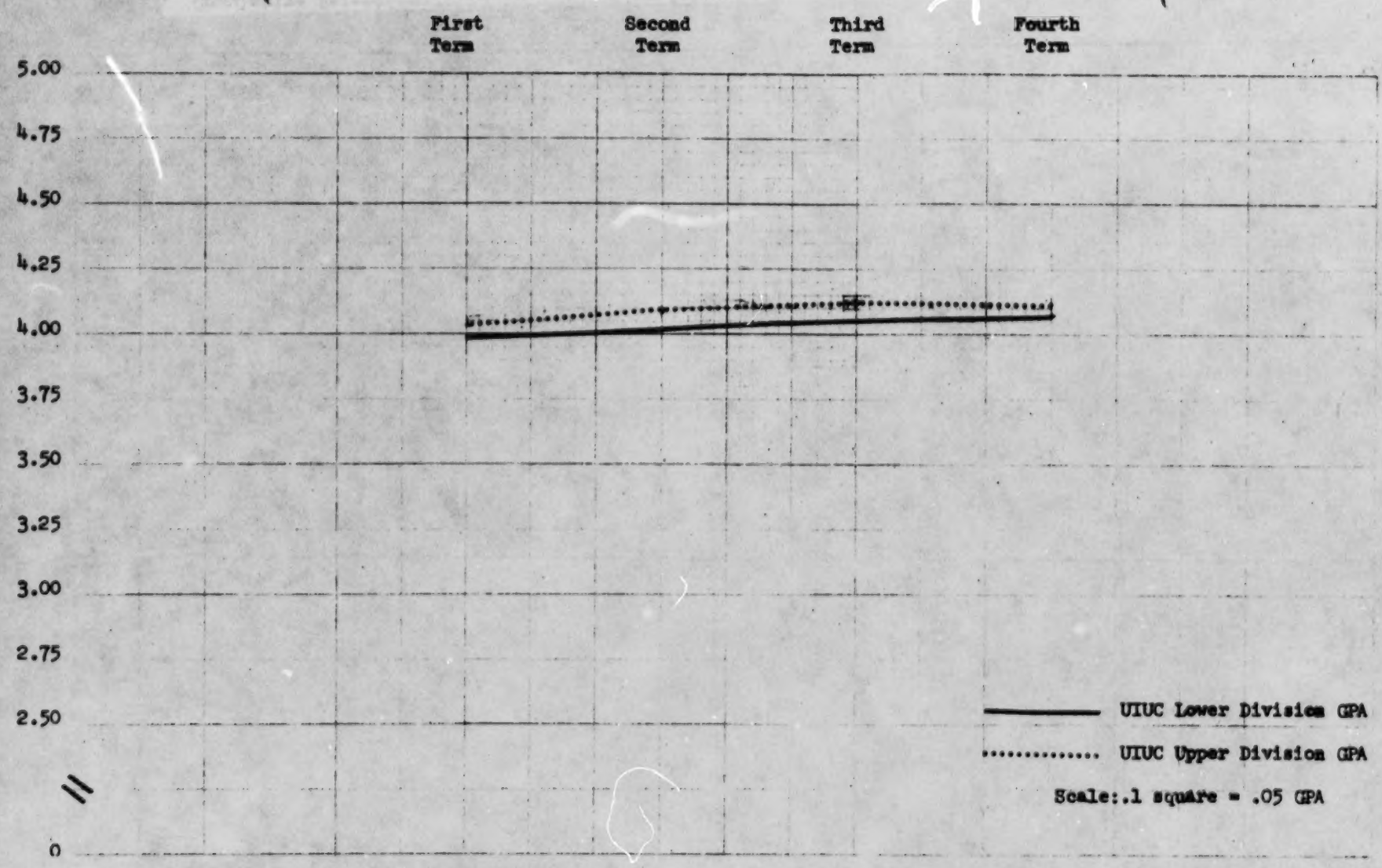

FIGURE 4. Mean Lower Division and Upper Division UIUC GPA for Native Juniors

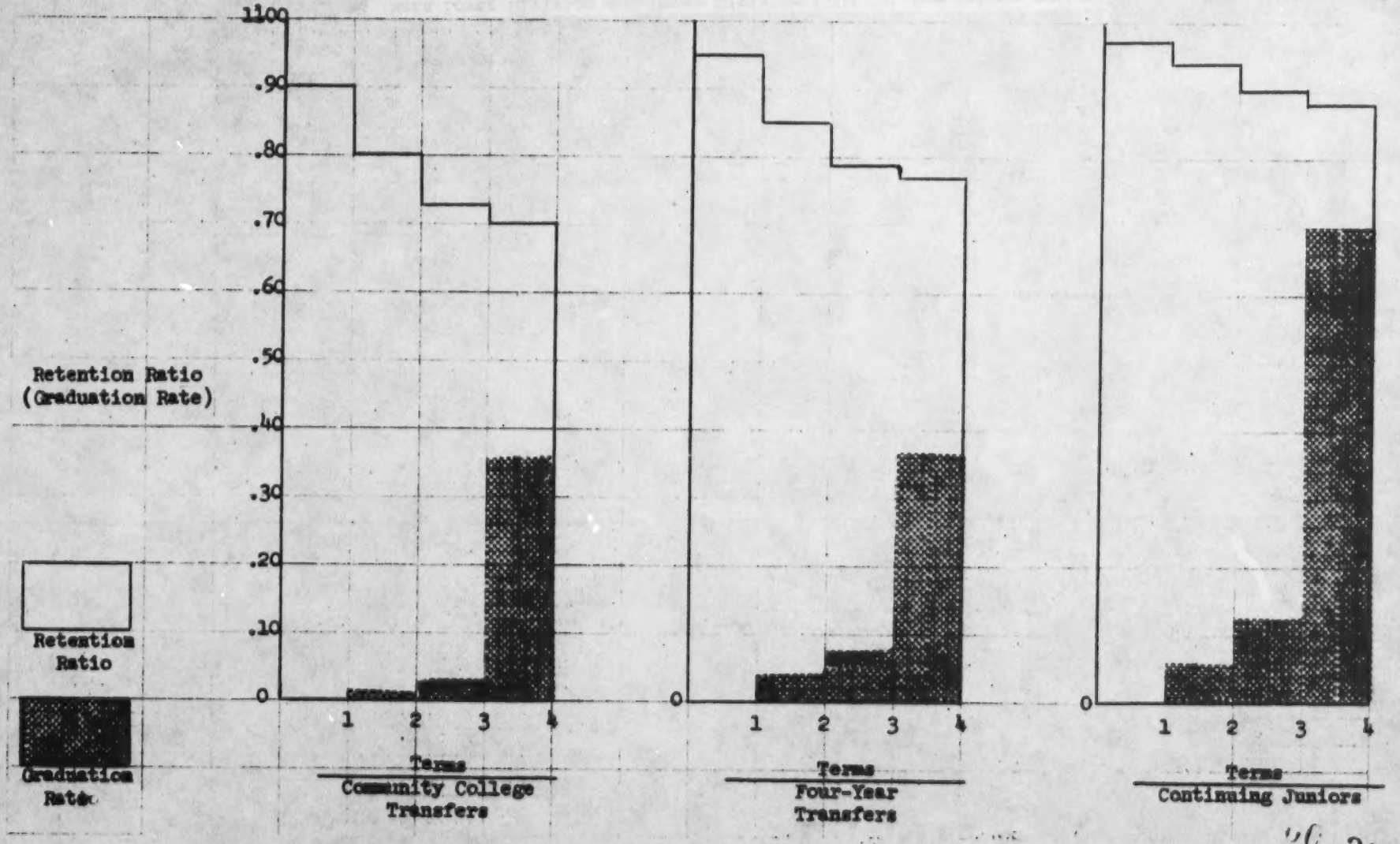

FIGURE 5 Cumulative Retention Ratio and Graduation Ratio by Term and by Type of Institution of Last Attendance

Third Term Achievement

Approximately three-quarters of the community college group (76%) and 78 percent of the four-year college group were retained for one-year and re-enrolled for the 1978 fall term, while 86 percent of the native group re-enrolled for the third term. A detailed analysis of these students and their performances is presented in Appendix C for each community college which enrolled five or more students in the original group. The third term mean GPA continued to increase over the previous term performance for all groups: the community college transfers +.08, the four-year transfers +.02, and the native students +.03. (See Table 1) This is also illustrated in Figures 2, 3, and 4.

The difference between pre-transfer or lower division GPA and mean third term GPA was -.41 for community college transfers, -.20 for the four-year transfers, and +.06 for the continuing juniors. For the first time, community college transfers placed only ten percent of its students on probation; this figure approached that for the four-year group (6%), but was substantially higher than that for the natives (4%).

Retention ratios were .73 for the community college transfers, .79 for the four-year transfers, and .90 for the continuing juniors. Included in the retention ratio is the graduation rate for these students. After three terms of work at UIUC, three percent (22 students) of the community college group and eight percent of the four-year group (51 students) had graduated; thirteen percent (530 students) of the native juniors had completed the baccalaureate degree (see figure 5). It is expected that the native group's graduation rate would be higher at this point because all of their group were required to have at least 60 semester hours of credit to qualify for selection into the group.

Academic Progress and Status Two Years After Transfer

Summary data presented in Table 1 for the three groups shows the proportion of each group in seven academic status or retention categories. Four terms after

transfer the 539 community college transfers who re-enrolled achieved a mean GPA of 3.96, which was an increase of .11 when compared with that group's third term GPA and was .31 less than their pre-transfer GPA. A detailed analysis of these students and their performances is presented in Appendix D for each community college which enrolled five or more students in the original group. Thirty-six percent of the original community college group had graduated; thirty-one percent and three percent, respectively, were continuing on clear or probationary status. Of the students in the original fall, 1977, group, twelve percent had been dropped, eight percent officially withdrew and never returned (during a term), eight percent left on clear status, and two percent left on probationary status. A total of 534 community college transfers had graduated or had completed the spring, 1979, term on clear or probationary status, which resulted in a retention ratio of .70 for the group.

The four-year college group consisted of 484 students enrolled for the fourth term. This group achieved a mean term GPA of 4.07, which is .08 greater than their mean third term GPA and was .13 less than their pre-transfer GPA. Of the original four-year college group (676 students), 36 percent had graduated, 39 percent were on clear status, and 2 percent were on probationary status. Five percent of the total four-year college group were dropped, five percent withdrew, ten percent left on clear, and three percent left on probation. The four-year college retention ratio was .77.

The native juniors who re-enrolled for the fourth term (3,229 students) achieved a mean term GPA of 4.11, which equaled that group's mean third term GPA, and was .04 above the group's lower division GPA. At the end of four terms, 70 percent of the native juniors had graduated, 18 percent were on continuing status (clear or probation), three percent were dropped, and four percent withdrew; the numbers of native juniors who chose to leave between terms were not available. The retention ratio of the continuing juniors was .88.

This study demonstrates that community college transfers experience a substantial drop in GPA during their first term after transfer, then partially recover over the next three terms (-.62 after one term to -.31 after four terms), and achieve at a level more closely approximating their pre-transfer GPA. This same trend can be observed for the fall, 1976,[25] fall, 1974,[26] fall, 1973,[27] and fall, 1972[28] community college transfers as well. Figure 1 illustrates this recovery in mean GPA by the community college group; Figure 1 also illustrates that all three groups begin with similar GPA's and that only the natives continue to achieve at a slightly higher level than they had attained during their lower division college work.

After four terms, 36 percent of the community college transfers, 36 percent of the four-year transfers, and 70 percent of the native juniors had been granted degrees. Thirty-one percent of the community college transfers, 39 percent of the four-year transfers, and 16 percent of the native juniors were eligible to continue on clear status. The percentage of students on probation after four terms was low for all three groups; the community college group had three percent of their total on probation, compared with two percent for the four-year group and the natives. Twelve percent of the community college transfers were formally dropped and never re-entered at UIUC, along with five percent of the four-year transfers and three percent

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[25]Anderson and Beers, Research Memorandum 79-6, pp. 12-13.

[26]Anderson, Research Memorandum 77-4, pp. 4-5.

[27]Ernest F. Anderson, "Comparison of Transfer and Native Student Progress at the University of Illinois at Urbana-Champaign, 1973-74 Academic Year." Champaign: University Office of School and College Relations, University of Illinois, Research Memorandum 76-8, July, 1976, p. 4.

[28]Ernest F. Anderson, "Comparison of Transfer and Native Student Progress at the University of Illinois at Urbana-Champaign, 1972-73 Academic Year." Champaign: University Office of School and College Relations, University of Illinois, Research Memorandum 75-14, December, 1975, p. 7.

of the natives. During the course of four terms, eight percent of the community college transfers withdrew and did not return, compared with five percent of the four-year transfers and four percent of the natives. Eight percent of the community college transfers left on clear, compared with ten percent of the four-year transfers; previous comparison studies of UIUC transfers have also reported that a greater percentage of four-year college groups left on probationary status and did not re-enter. This study did not attempt to obtain data on the reasons why these students left the university.

The retention ratio was highest for the native juniors (.88), followed by the four-year transfer group (.77) and community college transfer group (.70). It can be assumed that by the junior year, a student who enrolled at the University of Illinois at Urbana-Champaign as a beginning freshman and continued for two years would be more likely to continue for two more years than a transfer student who is new to the environment and may have completed fewer hours of credit than a native junior. The transfer group from four-year institutions achieved at a GPA level somewhat below that of the continuing juniors, and their retention ratio was eleven percent lower than the retention ratio for natives. The community college group GPA levels were well below those of the four-year group and the natives each term and had a retention ratio 18 percent below the natives and 7 percent below the four-year group.

Figure 1 shows that the community college group entered with the highest transfer GPA and achieved the lowest UIUC GPA during the period studied. One hypothesis to explain the community college group's continued lower achievement level at UIUC than before transfer is that the community college grades were inflated over what those students might have earned had they attended UIUC for their previous college work. Some of the difference in pre-transfer and UIUC GPA might

also be assigned to "transfer shock" if the group had recovered after one or even two terms; with this population GPA recovery was in small, consistent increments.

The UIUC GPA by status category is shown in Table 4 by term and type of institution of last attendance. Total GPA's for those leaving the university were well below the mean GPA's for all transfers each term--both for community college and four-year transfers. Each term, those students who were dropped had achieved mean GPA's of 2.27 or lower (C = 3.00) and almost all of those who had left while on probation had mean GPA's below 2.84 (C = 3.00). In contrast to the students who were dropped and who left on probation, the students who left on clear status had mean GPA's well above 3.00 and approached or exceeded the GPA's of all transfers in most terms. The GPA's for students who had withdrawn were, in most instances, well above the 3.00 level, also. These data indicate that a majority of the students who leave while on clear status or who withdraw during a term are not in academic difficulty and must be leaving for reasons other than lack of ability to achieve satisfactorily at UIUC. If these students could have been encouraged to re-enroll and continue at UIUC, it is possible that the graduation rate for transfers could approach that of the continuing juniors.

Comparison by Subject Area

Data on transfer and native student grade point averages at UIUC in each of 12 subject areas for the four terms included in this study are presented in Table 5. The community college group, the four-year group, and the natives were each assigned a performance rank in each of the twelve subject areas based upon the mean UIUC GPA for each term.

This rank-ordering procedure revealed that community college transfers ranked third, or lowest, in all of the 12 subject areas after the fall, 1977, term. The native juniors achieved the highest GPA in seven of the twelve subject areas, and

the four-year group ranked highest in five subject areas: Foreign Languages, Agriculture, Home Economics, Education, and English and Humanities. The performance of the four-year group more closely resembled that of the natives than that of the community college group; major differences (.20 or greater) between the four-year transfers and the natives for first term GPA occurred in the subject areas of Biological Sciences and Physical Sciences, with the natives having the highest achievement. In the area of Home Economics, four-year transfers performed .34 higher than the natives.

Community college transfers encountered more difficulty in the subject areas of Mathematics (GPA = 3.17), Physical Sciences (GPA = 3.33), and Biological Sciences (GPA = 3.52) than in other areas. Performance in each of these subject areas was below the community college group's average for all courses (3.60) and was at least .20 less than the performances of the four-year transfers and the natives. Even though the community college transfers were well above (.20 or greater) their overall average for all courses in the subject areas of Education (GPA = 4.29), Fine and Applied Arts (GPA = 4.02), Home Economics (GPA = 3.83), the community college transfers achieved a GPA at least .20 below the other two groups in the areas of Business, Foreign Languages, Agriculture, Engineering, and Education.

Spring, 1978, data revealed that community college transfers ranked lowest in 10 of 11 subject areas (data for the area of Home Economics was no longer provided). They once again were well below (.20 or more) the other two groups in the areas of Business and Commerce (GPA = 3.72), Physical Sciences (GPA = 3.48), and Engineering (GPA = 3.71); in addition to these three subject areas, community college transfers achieved below their overall average for all subjects (3.78) in Mathematics (3.38) and Biological Sciences (GPA = 3.70). Community college transfers did, however, rank second in the subject area of Biological Sciences.

TABLE 5
Comparison of Transfer and Native Student
Academic Achievement by Subject Area
University of Illinois at Urbana-Champaign
Fall, 1977 Group

Subject Area (1)	Community College Transfers		Four-Year College Transfers		Continuing Juniors (Natives)	
	Mean GPA (2)	Rank (3)	Mean GPA (4)	Rank (5)	Mean GPA (6)	Rank (7)
Fall, 1977 (1st Term)						
Biological Sciences	3.52	(3)	3.78	(2)	4.01	(1)
Business and Commerce	3.68	(3)	3.95	(2)	3.98	(1)
English and Humanities	3.96	(3)	4.22	(1)	4.13	(2)
Foreign Languages	3.83	(3)	4.12	(1)	4.06	(2)
Mathematics	3.17	(3)	3.53	(2)	3.70	(1)
Physical Sciences	3.33	(3)	3.53	(2)	3.81	(1)
Social Sciences	3.74	(3)	3.88	(2)	4.07	(1)
Agriculture	3.65	(3)	4.00	(1)	3.96	(2)
Engineering	3.65	(3)	3.95	(2)	4.06	(1)
Fine and Applied Arts	4.02	(3)	4.12	(2)	4.29	(1)
Education	4.29	(3)	4.68	(1)	4.56	(2)
Home Economics	3.97	(3)	4.34	(1)	4.00	(2)
All Courses	3.60	(3)	3.89	(2)	4.03	(1)
Spring, 1978 (2nd Term)						
Biological Sciences	3.70	(2)	3.67	(3)	4.02	(1)
Business and Commerce	3.72	(3)	3.93	(2)	3.96	(1)
English and Humanities	3.97	(3)	4.12	(2)	4.21	(1)
Foreign Languages	3.91	(3)	3.97	(2)	4.07	(1)
Mathematics	3.38	(3)	3.48	(2)	3.74	(1)
Physical Sciences	3.48	(3)	3.74	(2)	3.85	(1)
Social Sciences	3.86	(3)	4.00	(2)	4.11	(1)
Agriculture	3.97	(3)	4.13	(2)	4.16	(1)
Engineering	3.71	(3)	3.95	(2)	4.09	(1)
Fine and Applied Arts	4.29	(3)	4.44	(1)	4.31	(2)
Education	4.46	(3)	4.47	(2)	4.64	(1)
Home Economics	--	--	--	--	--	--
All Courses	3.77	(3)	3.97	(2)	4.08	(1)

TABLE 5 (Cont.)
Comparison of Transfer and Native Student
Academic Achievement by Subject Area
University of Illinois at Urbana-Champaign
Fall, 1977 Group

Subject Area (1)	Community College Transfers		Four-Year College Transfers		Continuing Juniors (Natives)	
	Mean GPA (2)	Rank (3)	Mean GPA (4)	Rank (5)	Mean GPA (6)	Rank (7)
Fall, 1978 (3rd Term)						
Biological Sciences	3.54	(3)	3.86	(2)	4.02	(1)
Business and Commerce	3.78	(3)	3.92	(2)	3.99	(1)
English and Humanities	4.18	(2)	4.14	(3)	4.30	(1)
Foreign Languages	4.09	(1.5)	4.01	(3)	4.09	(1.5)
Mathematics	3.40	(2)	3.26	(3)	3.70	(1)
Physical Sciences	3.55	(3)	3.78	(2)	3.88	(1)
Social Sciences	3.89	(3)	4.02	(2)	4.11	(1)
Agriculture	3.92	(3)	4.18	(1)	4.14	(2)
Engineering	3.92	(3)	4.07	(2)	4.08	(1)
Fine and Applied Arts	4.16	(3)	4.27	(2)	4.28	(1)
Education	4.51	(2)	4.31	(3)	4.72	(1)
Home Economics	--	--	--	--	--	--
All Courses	3.85	(3)	3.99	(2)	4.11	(1)
Spring, 1979 (4th Term)						
Biological Sciences	3.94	(3)	3.97	(1)	3.95	(2)
Business and Commerce	3.84	(3)	3.94	(1)	3.89	(2)
English and Humanities	4.15	(2)	4.13	(3)	4.25	(1)
Foreign Languages	4.04	(2)	3.99	(3)	4.19	(1)
Mathematics	3.60	(1)	3.39	(3)	3.50	(2)
Physical Sciences	3.75	(3)	3.80	(2)	3.94	(1)
Social Sciences	3.91	(3)	4.09	(1)	4.08	(2)
Agriculture	3.91	(3)	4.19	(1)	4.18	(2)
Engineering	3.97	(3)	4.03	(2)	4.12	(1)
Fine and Applied Arts	4.49	(1)	4.42	(2)	4.37	(3)
Education	4.78	(1)	4.68	(3)	4.69	(2)
Home Economics	--	--	--	--	--	--
All Courses	3.96	(3)	4.07	(2)	4.11	(1)

Four-year transfers ranked first in one subject area the second term: Fine and Applied Arts (GPA - 4.44). They were well below their mean GPA (3.97) in the areas of Mathematics (GPA - 3.48), Biological Sciences (3.67), and Physical Sciences (3.74). Continuing juniors ranked highest in ten subject areas and second in one subject area: Fine and Applied Arts, where the mean GPA's for all three groups were above their mean GPA's for all courses (community college-4.29, four-year-4.44, and natives-4.31). Four-year transfers continued to perform more like the magnitude of the difference between community college group performance and four-year college group performance decreased during the second term.

Community college transfers ranked third in 7 of 11 subject areas for fall term, 1978. They were well below the other two groups in the following subject areas: Biological Sciences, Physical Sciences, and Agriculture. The community college group was below its mean term GPA of 3.85, however, in only four subject areas: Biological Sciences (3.54), Business and Commerce (3.78), Mathematics (3.40), and Physical Sciences (3.55). This group shared first ranking with the natives in the area of Foreign Languages.

Four-year transfers ranked first in one subject area (Agriculture) and second in six areas. They were well below their mean GPA of 3.99 in the subject areas of Mathematics and Physical Sciences for fall, 1978. Continuing juniors ranked highest in ten subject areas (having an identical GPA of 4.09 as the community college group in Foreign Languages), and ranked second in the area of Agriculture.

In the fourth term, the community college transfers ranked third in six of eleven subject areas; they ranked first in Mathematics, Fine and Applied Arts, and Education, and ranked second in English and Humanities and Foreign Languages. They were, once again, well below their mean GPA (3.96) in the areas of Mathematics (3.60), and Physical Sciences (3.75). They were far behind the other groups in the area of Agriculture.

The four-year transfers achieved the highest GPA in four areas: Biological Sciences, Business and Commerce, Social Sciences, and Agriculture. They were well below their mean GPA (4.07) in Mathematics and Physical Science. The continuing juniors ranked highest in four areas, ranked second in six areas, and were ranked last in Fine and Applied Arts.

These data show that the overall academic achievement of natives is generally higher than four-year transfers or community college transfers in most subject areas. The native juniors ranked first in Physical Sciences and Engineering all four terms of this study. They ranked first for three of the four semesters in Biological Sciences, Business and Commerce, English and Humanities, Social Sciences, and Mathematics. The four-year group ranked first in three of four semesters for Agriculture. The community college group, conversely, ranked third in most subject areas for each of the four terms.

It can be observed from data presented in Table 5 that mean GPA's for community college transfers are appreciably lower than the native junior GPA's in the areas of Biological Sciences, Business and Commerce, Mathematics, Physical Sciences, Social Sciences, Agriculture, and Engineering. Four-year transfers were consistently lower than the native juniors in the Physical Sciences. All three groups were consistently lower in Mathematics than in other subject areas.

Institutional Differences

A summary of community college transfer student progress by institution of last attendance is presented in Table 6 for those Illinois community or junior colleges sending five or more transfer students to the University of Illinois at Urbana-Champaign for the 1977 fall term. These data are accompanied by comparable group data for four-year college transfers and continuing juniors. Community colleges which sent five or more transfers were assigned a confidential code number, which is shown in column one; these code numbers do not correspond to code numbers

TABLE 6
Summary of Community College Transfer Student Progress by Institution of Last Attendance
University of Illinois at Urbana-Champaign
Fall, 1977 Group

College Code (1)	No. Fall 1977 Trans. (2)	Pre-Trans. GPA (3)	Mean 1st Term GPA (4)	No. Re-enrolled & GPA: 2nd Term No. (5)	2nd Term GPA (6)	3rd Term No. (7)	3rd Term GPA (8)	4th Term No. (9)	4th Term GPA (10)	Academic Status After Four Terms: Grad. No. (11)	Grad. % (12)	Clear No. (13)	Clear % (14)	Pro No. (15)	Pro % (16)	Dropped No. (17)	Dropped % (18)	W/drawn No. (19)	W/drawn % (20)	Left on Clear No. (21)	Left on Clear % (22)	Left on Pro No. (23)	Left on Pro % (24)	Retention Ratio* (25)
01	28	4.19	3.31	21	3.87	17	3.66	17	3.73	5	18	10	36	1	3	5	18	3	11	4	14	--	--	.57
02	27	4.04	3.63	22	3.88	17	4.03	15	4.07	8	30	6	22	0	0	5	19	2	7	6	22	0	0	.52
03	23	4.30	3.72	22	3.49	19	4.00	18	3.73	8	35	8	35	2	9	4	17	0	0	1	4	0	0	.78
04	10	3.93	3.24	9	3.89	8	3.14	6	3.79	3	30	2	20	1	10	2	20	1	10	1	10	0	0	.60
05	17	4.17	3.20	15	3.28	12	3.46	8	3.70	3	18	3	18	2	12	6	35	1	5	2	12	0	0	.47
06	7	4.52	4.01	6	3.99	6	3.80	6	3.61	2	29	2	29	1	14	1	14	1	14	0	0	0	0	.71
07	32	4.21	3.86	29	4.03	26	3.96	24	4.18	13	41	13	41	0	0	0	0	2	6	4	12	0	0	.81
08	21	4.28	3.54	18	3.66	16	3.75	16	3.85	8	38	6	28	1	5	4	19	1	5	1	5	0	0	.67
09	12	4.53	3.33	8	3.58	7	3.66	6	4.12	4	33	2	17	0	0	3	25	1	8	2	17	0	0	.50
10	8	4.25	3.84	7	4.00	7	4.09	7	3.90	4	50	3	38	0	0	1	12	0	0	0	0	0	0	.88
11	7	4.04	3.37	7	3.74	5	4.06	5	4.35	3	42	2	29	0	0	2	29	0	0	0	0	0	0	.71
12	16	4.09	3.38	15	3.34	12	3.98	12	3.89	5	31	5	31	2	13	2	13	1	6	1	6	0	0	.75
13	20	4.23	3.46	18	3.60	17	3.55	16	3.76	12	60	3	15	1	5	0	0	1	5	2	10	1	5	.80
14	7	4.45	3.74	6	4.15	6	3.94	6	4.19	4	57	2	29	0	0	0	0	1	14	0	0	0	0	.86
15	35	4.26	3.78	33	3.97	28	4.05	25	3.97	18	51	10	29	0	0	1	3	2	6	4	11	0	0	.80
16	114	4.22	3.54	87	3.71	74	3.87	69	3.80	29	25	31	27	6	5	20	18	13	11	12	11	3	3	.58
17	51	4.12	3.60	46	3.72	43	3.70	39	3.96	11	21	26	51	2	4	5	10	2	4	3	6	2	4	.76
18	21	4.03	3.23	17	3.48	15	3.48	13	3.72	7	33	5	24	1	5	3	14	0	0	0	0	5	24	.62
19	10	4.08	3.43	10	3.52	9	3.57	9	3.79	4	40	5	50	0	0	0	0	1	10	0	0	0	0	.90
20	25	4.36	3.96	23	4.12	20	4.20	20	4.37	11	44	10	40	0	0	1	4	0	0	1	4	2	8	.84
21	13	4.25	3.42	11	3.80	11	3.72	10	3.86	5	38	4	31	0	0	1	8	3	23	0	0	0	0	.69
22	22	4.33	3.84	19	3.93	18	3.99	18	4.00	11	50	5	23	0	0	2	9	3	14	1	4	0	0	.73
23	5	4.54	3.71	5	4.02	5	3.79	5	4.01	2	40	2	40	0	0	1	20	0	0	0	0	0	0	.80
24	53	4.36	3.65	50	3.83	44	3.97	40	4.11	25	47	13	25	1	2	5	9	5	9	3	6	1	2	.74
25	28	4.20	3.61	23	4.09	23	4.03	20	4.31	16	57	3	11	0	0	2	7	3	11	3	11	1	3	.68
26	29	4.15	3.80	28	3.83	23	3.92	21	3.97	9	31	10	34	3	10	2	7	1	4	4	14	0	0	.76
27	5	4.41	4.18	4	4.15	4	4.04	4	4.31	3	60	1	20	0	0	0	0	0	0	1	20	0	0	.80
28	12	4.12	3.34	12	3.24	10	3.52	8	3.61	2	17	6	50	1	8	3	25	0	0	0	0	0	0	.75
29	28	4.56	3.75	24	3.79	23	3.85	21	3.93	10	36	10	36	0	0	3	11	2	7	2	7	1	3	.71
30	9	4.28	3.57	8	3.81	7	3.58	7	4.26	3	33	4	45	0	0	2	22	0	0	0	0	0	0	.78
31	5	4.21	3.24	4	2.80	2	3.60	2	3.70	0	0	2	40	0	0	0	0	2	40	0	0	1	20	.40
32	5	3.86	4.31	4	4.65	4	4.50	4	4.69	2	40	2	40	0	0	0	0	1	20	0	0	0	0	.80
33	5	3.90	2.25	1	2.57	1	2.50	—	--	0	0	0	0	0	0	2	40	3	60	0	0	0	0	--
34	13	4.22	3.56	13	3.73	10	4.09	10	4.07	6	46	5	38	0	0	1	8	0	0	1	8	0	0	.85
35	8	4.19	3.62	4	4.33	3	3.95	2	4.50	1	13	2	25	0	0	0	0	4	50	1	12	0	0	.38
36	22	4.22	3.65	22	3.66	17	3.86	17	3.78	11	50	6	28	1	5	2	9	0	0	1	5	1	5	.82
37	15	4.06	3.53	14	3.60	13	3.61	13	3.86	6	40	5	33	0	0	2	13	1	7	0	0	1	7	.73
All C.C.	768	4.22	3.60	665	3.77	584	3.85	539	3.96	274	36	234	31	26	3	93	12	61	8	61	8	19	2	.70
All 4-Year	676	4.17	3.89	605	3.97	528	3.99	484	4.07	241	36	266	39	12	2	33	5	36	5	71	10	17	3	.77
All Cont. Jrs.	4220	3.99	4.03	4079	4.08	3624	4.11	3229	4.11	2950	70	685	16	69	2	150	3	175	4	n/a	n/a	n/a	n/a	.88

*Retention Ratio: Proportion of Fall, 1977 Group who graduated or completed the term on clear or probationary status.

assigned to institutions by the University Office of School and College Relations.[29] The number of students who initially entered the 1977 fall term and each group's mean pre-transfer GPA are shown in columns 2 and 3, respectively. Column 4 shows the mean UIUC first term grade point average for the students from each community college which has been coded; columns 5 through 10 report the number of students re-enrolled and the mean UIUC GPA for each of the three remaining terms being studied. Columns 11 through 24 report academic status after four terms, while column 25 reports retention ratios for the coded community colleges, four-year transfer group, and the continuing junior group.

Comparison of pre-transfer and first term GPA shows that 36 of 37 coded institutional groups experienced a drop of at least .23 in GPA, with two institutional groups (codes 9 and 33) having decreases which exceeded one letter grade. The one institutional group (code 32) which had no drop in GPA showed an increase of .45 for five students. Thirty of 37 institutional groups achieved a mean second term GPA higher than their mean first term GPA, 21 of 37 groups exceeded their mean second term GPA the third term, and 28 of 37 groups exceeded their term GPA the fourth term. Comparisons of pre-transfer and fourth term GPA's show that six community college groups (codes 2, 11, 20, 25, 32, and 35) achieved a fourth term GPA higher than their mean pre-transfer GPA's (for the original entering groups); the remaining 31 community college groups did not achieve UIUC GPA's at the level of the mean pre-transfer GPA for the 1977 fall transfers from that community college.

It is clear from these data that even though recovery in grade point average is noted in the second, third, and fourth terms, considerable variance still exists in the achievement after transfer among groups from different community

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[29]Donald J. Wermers, "Institution Codes for Identification of Institutions of Last Attendance for Transfer Students, January 25, 1980." Champaign: University Office of School and College Relations, 1980.

colleges. There is no evidence presented in this study which explains the source of observed institutional differences or differences which may exist between students who enter the various curricula. However, previous studies of transfer students from community colleges demonstrate the variance in the academic abilities of the students transferring from individual community colleges and this may account for some of the differences among group achievement.

After the fourth term, 8 of 37 community college groups had graduated 50 percent or more of their students. Column 18 shows that eight communtiy college groups had a disproportionately high percentage (greater than 20 percent) of students dropped. Five community college groups had a withdrawal rate of 20 percent or greater, shown in column 20.

The retention rates for each of the community colleges with five or more transfers are presented in column 25 of Table 6. Twelve of 37 community college institutions show retention rates of .80 or above after four terms. Seventeen community college groups have retention rates between .60 and .79. Only three community college groups had retention rates of less than .50.

Table 7 presents an analysis of the relationship between the drop in mean first term GPA and the retention ratio for the 37 community college groups. A correlation of -.63 was found between the institutional drop in first term GPA and the retention ratio for all students from that community college. Institutions which experience a large drop in GPA had a low retention ratio and institutions with modest decreases or an increase in first term GPA had a higher retention (see columns 3 and 4). It is estimated that approximately 40 percent of the variance in retention ratios among the 37 community college groups can be accounted for by the variance in mean drop in first term GPA at UIUC.

Table 8 presents the relationship of pre-transfer GPA and UIUC GPA for each of the four terms of this study, the relationship of pre-transfer GPA and last

TABLE 7

Relationship of Drop in Mean First Term GPA and Retention Ratio
Fall, 1977

Institution Code (1)	Number of Transfers (2)	Mean Drop in Inst. GPA (X) (3)	Retention Ratio (Y) (4)
01	28	.87	.57
02	27	.41	.52
03	23	.58	.78
04	10	.69	.60
05	17	.97	.47
06	7	.51	.71
07	32	.35	.81
08	21	.74	.71
09	12	1.20	.50
10	8	.41	.88
11	7	.67	.71
12	16	.71	.75
13	20	.77	.80
14	7	.71	.86
15	35	.48	.80
16	114	.68	.58
17	51	.52	.76
18	21	.80	.62
19	10	.65	.90
20	25	.40	.84
21	13	.83	.69
22	22	.49	.73
23	5	.83	.80
24	53	.71	.74
25	28	.59	.68
26	29	.35	.76
27	5	.23	.80
28	12	.58	.75
29	28	.81	.71
30	9	.71	.78
31	5	.97	.40
32	5	+.45	.80
33	5	1.65	--
34	13	.66	.85
35	8	.57	.38
36	22	.57	.82
37	15	.53	.73
Total	768	.64	.69

$S.D._X = .32$ $S.D._Y = .17$

$r_{XY} = -.63^{**}$

$r^2 = .40$

(Slope = -.35; Intercept = .91; Y = -.35X + .91

** Significant at .01

TABLE 8

Relationship of Pre-Transfer GPA and Term UIUC GPA,
Last Term UIUC GPA[1], and Final Status by Type of Institution of Last Attendance
University of Illinois at Urbana-Champaign
Fall, 1977 Transfers

	Number (N) (1)	Sample Size (2)	Mean Pre-Transfer GPA (3)	Std. Dev. (4)	Term UIUC GPA or Final Status (5)	Std. Dev. (6)	Correlation ($r = X_1Y_1$) (7)	Slope (X_1Y_1) (8)	Intercept (X_1Y_1) (9)
1. Pre-Transfer GPA (X_1): 1st Term UIUC GPA (Y_1)									
Community Colleges	768	125	4.23	.43	3.59	.75	.44**	.76	.37
Four-Year Colleges	676	125	4.16	.40	3.86	.69	.45**	.77	.66
2. Pre-Transfer GPA (X_1): 2nd Term UIUC GPA (Y_2)									
Community Colleges	665	111	4.21	.42	3.65	.84	.53**	1.06	-.80
Four-Year Colleges	605	114	4.15	.41	4.01	.65	.41**	.65	1.32
3. Pre-Transfer GPA (X_1): 3rd Term UIUC GPA (Y_3)									
Community Colleges	584	100	4.23	.42	3.88	.69	.46**	.75	.69
Four-Year Colleges	528	102	4.18	.41	3.95	.68	.35**	.58	1.53
4. Pre-Transfer GPA (X_1): 4th Term UIUC GPA (Y_4)									
Community Colleges	539	93	4.25	.42	4.02	.67	.42**	.68	1.13
Four-Year Colleges	484	96	4.18	.41	4.05	.68	.12	.20	3.20
5. Pre-Transfer GPA (X_1): Last Term UIUC GPA (Y_5)									
Community Colleges	n/a	125	4.23	.43	3.73	.94	.35**	.76	.50
Four-Year Colleges	n/a	125	4.16	.40	3.98	.74	.20*	.37	2.42
6. Pre-Transfer GPA (X_1): Final Status (Y_6)									
Community Colleges	n/a	125	4.23	.43	5.55	1.94	.25**	1.14	.73
Four-Year Colleges	n/a	125	4.16	.40	5.83	1.47	.15	.56	3.49

[1]Last term for which GPA reported.

*Significant at .05

**Significant at .01

term UIUC GPA (pre-transfer GPA and GPA for each of the sample members, regardless of each member's last term of attendance), and the relationship of pre-transfer GPA and final status at UIUC (refer to status categories given on p.5) by type of institution. Random samples of 125 community college transfers and 125 four-year college transfers were selected to obtain these relationships. Significant relationships are identified by one ($P < .05$) or two ($P < .01$) asterisks in column 7.

The slope and intercept are shown for each sample group so that a prediction equation can be constructed for each type of transfer (y=slope (x) + intercept). For example, a transfer from a community college with a mean pre-transfer GPA of 4.00 can be expected to achieve a mean first term GPA of 3.41, since y = slope(x) + intercept: .76 (4.00) + .37. That same transfer student can be expected to achieve a mean second term GPA of 3.44; since y = slope(x) + intercept: 1.06(4.00) + (-.80), a mean third term GPA of 3.69: [.75(4.00) + .69], a mean fourth term GPA of 3.85: [.68(4.00) + 1.13], and a final status at UIUC of 5.29: [1.14(4.00) + .73]. It would take a 3.46 pre-transfer GPA from a community college transfer to predict a 3.00 first term UIUC GPA and a 3.29 pre-transfer GPA to predict a last term UIUC GPA of 3.00. It is likely that community college students with GPA's below 3.29 will not achieve a grade point average above 3.00 (C) after transfer.

The relationship between pre-transfer GPA and performance at UIUC for the random sample of 125 community college transfers was found to be significant at the $p < .01$ level for each term of this study, last term UIUC GPA, and final status. The relationship between pre-transfer GPA and performance at UIUC for the random sample of 125 four-year transfers was significant at the $p < .01$ level for first, second, and third term UIUC GPA's, and was significant at the $p < .05$ level for last term UIUC GPA. These data confirm the conclusion that the pre-transfer GPA's upon which these transfers were selected had a significant positive relationship to performance at UIUC.

A review of the trend in retention and academic achievement at UIUC since 1970 reveals some gradual changes in relation to transfer students at UIUC. Table 9 reports trends in community college transfer student performance at UIUC. The numbers of community college transfers to UIUC increased rather dramatically between 1971 and 1972, when the number of transfers nearly doubled; since 1975 the numbers of transfers have remained fairly constant at about 725. There have been steady increases in pre-transfer GPA for community college transfers to UIUC; these increases have been accompanied by very modest increases in mean first term GPA. Retention rates one year after transfer have stabilized at about .80 and two years after transfer at approximately .70. The graduation rate for the community college group is approximately 40 percent two years after transfer; it has varied from about 45 percent in 1971 to approximately 36 percent in 1977, when measured two years after transfer. It seems that both the quality of community college transfer students as measured by pre-transfer GPA and the retention and graduation rates has stabilized at UIUC.

Table 10 reports trends in four-year college transfer student progress at UIUC. The enrollment trends of four-year college transfers resemble those of community college transfers, with the exception that since 1975 the decrease in numbers of four-year transfers has been pronounced. The numbers have stabilized at approximatley 600. Pre-transfers' GPA's for four-year transfers have also increased steadily since 1972 to 4.18 in 1979, while mean first term GPA's have not fluctuated a great deal. Retention ratios one year after transfer are approximately .85, which is slightly higher than the .80 for community college transfers. Retention two years after transfer varies between .67 and .80, and is slightly greater than the community college figure.

Graduation rates for the four-year college transfers two years after transfer range from 36 percent to 58 percent, but have stabilized at about 40 percent.

TABLE 9
Trends in Community College Transfer Student Performance
University of Illinois at Urbana-Champaign
1970 through 1979

(1)	1970 (2)	1971 (3)	1972 (4)	1973 (5)	1974 (6)	1975 (7)	1976 (8)	1977 (9)	1978 (10)	1979 (11)
Number of Transfers	425	455	800	817	838	718	678	768	702	766
Pre-Transfer GPA	3.94	3.99	4.01	4.09	4.16	4.19	4.22	4.22	4.26	4.26
Mean 1st Term GPA	3.55	3.57	3.62	3.58	3.54	3.59	3.63	3.60	3.68	3.66
Drop in 1st Term GPA	.39	.42	.39	.51	.62	.60	.59	.62	.58	.60
Mean 2nd Term GPA	3.69	3.76	3.78	3.73	3.83	3.77	3.78	3.77	3.80	---
Mean 3rd Term GPA	---	3.85	3.83	3.83	3.88	3.88	3.88	3.85	3.92	---
Mean 4th Term GPA	---	4.03	3.89	3.96	3.93	3.97	3.98	3.96	---	---
Retention 1 yr. after Transfer	.82	.83	.81	.80	.72	.81	.80	.80	.82	---
Retention 2 yrs. after Transfer	---	.74	.74	.67	.69	.73	.70	.70	---	---
Grad. 2 yrs. after Transfer	---	45%	41%	38%	40%	42%	40%	36%	---	---

TABLE 10
Trends in Four-Year Transfer Student Performance
University of Illinois at Urbana-Champaign
1970 through 1979

(1)	1970 (2)	1971 (3)	1972 (4)	1973 (5)	1974 (6)	1975 (7)	1976 (8)	1977 (9)	1978 (10)	1979 (11)
Number of Transfers	659	679	1154	1136	1008	624	505	676	587	626
Pre-transfer GPA	3.88	4.02	3.97	3.99	4.08	4.13	4.16	4.17	4.18	4.18
Mean 1st Term GPA	3.95	4.01	3.92	3.86	3.84	3.89	3.93	3.89	3.93	3.85
Drop in 1st Term GPA	+.07	.01	.05	.13	.24	.24	.23	.28	.25	.33
Mean 2nd Term GPA	4.04	4.08	4.01	4.00	4.01	4.03	4.00	3.97	4.00	---
Mean 3rd Term GPA	---	4.12	3.99	4.03	4.04	4.06	4.09	3.99	4.06	---
Mean 4th Term GPA	---	4.19	4.07	4.12	4.06	4.07	4.09	4.07	---	---
Retention 1 yr. after Transfer	.84	.88	.85	.84	.75	.87	.85	.85	.89	---
Retention 2 yrs. after Transfer	---	.80	.77	.73	.67	.75	.79	.77	---	---
Grad. 2 yrs. after Transfer	---	58%	40%	52%	38%	40%	45%	36%	---	---

In general, graduation rates for four-year college transfers do not differ greatly from the graduation rates for community college transfers, even though the GPA's are somewhat higher.

III. Summary, Discussion, and Interpretation of Findings

Summary of Findings

1. The community college transfer group entered UIUC with a pre-transfer GPA of 4.22, which is slightly higher than the pre-transfer GPA (4.17) of the four-year college transfer group and the previous GPA for the UIUC native group (3.99).

2. Community college transfers achieved first term UIUC grade point averages .62 below their pre-transfer GPA, while four-year transfers dropped .28; the natives achieved an average GPA slightly higher (.04) than their previous achievement.

3. Neither community college transfers nor four-year transfers to UIUC equalled or exceeded their mean pre-transfer grade point average during the four terms included in this study. The native juniors, however, achieved UIUC grade point averages which, for each of the four terms, did exceed that group's GPA at the point of implementation of this study.

4. Seventy-six percent of the community college group and 78 percent of the four-year college group completed the first year after transfer and re-enrolled for the second year of the study, while 86 percent of the native group re-enrolled for the next year.

5. Seventy percent of the community college transfers and 77 percent of the four-year college transfers were graduated or retained after two years, while the comparable figure for the native students was 88 percent.

6. Thirty-six percent of both the community college transfers and the four-year college transfers graduated during the two years of the study; approximately three-fourths (70%) of the natives in the fall, 1977, group graduated during the same period.

7. Approximately 14 percent of the community college transfer group and 8 percent of the four-year transfer group left UIUC for academic reasons, while 3 percent of the natives left for academic reasons during the two-year period of the study.

8. Twelve percent of the community college transfers and five percent of the four-year college transfers were dropped and never re-entered UIUC, while only three percent of the natives were dropped and never re-entered after attaining junior status.

9. Approximately ten percent of the four-year college transfers and eight percent of the community college transfers left on clear status and did not re-enroll at UIUC.

10. Three percent of the four-year transfers and two percent of the community college transfers left on probation and did not re-enroll.

11. Transfer students who left on clear status were generally higher achievers before transfer and achieved higher UIUC grade point averages during the term preceding their departure than the average student in their transfer group.

12. Transfer students who were dropped or who left on probation were generally lower achievers before transfer and achieved UIUC grade point averages well below the average student in their transfer group for the term(s) preceding their departure.

13. Community college transfers achieved a lower mean UIUC GPA in a majority of the 12 subject areas studied than did the four-year transfers or the native group. The performance of the four-year transfer group more closely resembled that of the continuing natives than that of the community college group in the various subject areas.

14. Community college transfers and four-year transfers were consistently below average group achievement in the subject areas of mathematics, physical sciences, biological sciencs, and business and commerce.

15. There was a negative correlation (-.63) between the average first term drop in mean GPA and the final retention ratio for individual community colleges. In general, those institutions whose transfer students to UIUC experienced the largest drop between pre-transfer GPA and first term UIUC GPA obtained the lowest retention ratios after four terms.

16. The pre-transfer GPA of individual students is a significant predictor of term UIUC GPA, last UIUC GPA, and last UIUC status for community college transfers. The pre-transfer GPA of individual students is a significant predictor of UIUC GPA for the first, second, and third terms, and UIUC GPA for last term of attendance for four-year college transfers.

17. There has been a steady increase in pre-transfer GPA from 3.94 in 1970 to 4.26 in 1979 for community college transfers. There has also been a steady and correlated increase in first term UIUC GPA for this same group from 3.55 in 1970 to 3.66 in 1978. There was a correlation of +.63 ($P < .10$) between mean pre-transfer GPA and mean first term UIUC GPA for the 10 year period from 1970 to 1979. No relationship is indicated between pre-transfer GPA and first term UIUC GPA for four-year college transfers for the 10-year period.

18. Retention ratios two years after transfer for the community college group have ranged from .67 to .74 in the last decade, and have stabilized at about .70 in recent years. The comparable figures for four-year college transfers have varied from .67 in 1974 to .80 in 1971, but have remained two to five percent greater than for the two-year college group.

19. The graduation rate of 36 percent for both community college transfers and four-year college transfers is generally consistent with graduation rates for these transfer groups in prior years. Graduation rates for four-year college transfers tend to fluctuate more from year-to-year than graduation rates for community college transfers.

Discussion and Interpretation of Findings

The findings presented in this study indicate that community college transfers and four-year college transfers did not achieve as well after transfer to UIUC as they did before transfer, while continuing juniors achieved higher GPA's than they had achieved prior to selection for this study. This is not a new finding; previous studies at both UIUC and UICC, along with national studies, have duplicated this finding. This study, then, presents data which conflicts with the statewide report by Lach,[30] and supports previous studies of transfer students to the two campuses of the University of Illinois.

Retention, including graduation and continuing on clear or probation, was lower for community college transfers (.70) and for four-year college transfers (.77) than for continuing juniors (.88). More striking are differences in graduation rates. Community college transfers and four-year college transfers graduated 36 percent of their groups during the term of this study, while 70 percent of the continuing juniors were graduated. These data support the hypothesis that transfer students do not achieve as well after transfer to UIUC as continuing juniors.

The reasons for leaving the university are helpful in an analysis of the success data for various groups. Approximately fourteen percent of the community college transfers and eight percent of the four-year transfers were dropped or left on probation during the two-year period of the study, compared with three percent of the continuing juniors. These data further support the hypothesis that community college transfers and four-year college transfers as a group are less well prepared to achieve at UIUC than continuing juniors.

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[30] Lach, Statewide Follow-up Study, September, 1978.

The findings and implications presented in this study need to be interpreted in the context of the environment in which the research was conducted and evaluated and in relation to the differential purposes of the types of institutions represented by students in the study. One purpose of community colleges is to prepare baccalaureate-oriented students for successful transfer to four-year colleges and universities for completion of bachelor's degrees. Community colleges are "open door" institutions obligated to admit all students who are minimally qualified to complete one of their programs. This means that community colleges have students enrolled in baccalaureate-oriented courses and programs who are high academic achievers as well as students with average and below average academic achievement with lower probability of achieving success in a transfer program. It is from this population that community college transfers originate and are selected for admission to UIUC in competition with transfers from four-year colleges and universities.

The major purposes of the undergraduate colleges at the University of Illinois are to provide the general education, technical and professional knowledge, and skills to fill leadership roles in society at the bachelor's degree level and to prepare students for successful completion of graduate programs. The University of Illinois at Urbana-Champaign admits the "best qualified" beginning freshmen and transfers in each of its colleges and curricula for each admission period. Data for the present and recent beginning freshmen classes show that the average beginning freshman student graduated at about the 86.8 percentile of his or her high school graduating class and had an ACT composite score of about 25.6,[31] which makes the native student population a very highly qualified group when compared with the population of community college students enrolled

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[31]Langston, Ira W. IV, "The Urbana-Champaign Campus Freshman Class Profile, Fall, 1979." Champaign: University Office of School and College Relations, University of Illinois. (Unpublished).

in baccalaureate-oriented programs. The four-year colleges and universities from which the University of Illinois receives transfer students have divergent purposes, but it is known that the transfers from those institutions to UIUC have high school ranks and college entrance scores very similiar to the scores of native students.[32]

The community colleges provide an opportunity for many students to enter UIUC's undergraduate programs as transfer students who would not have been admitted under the more competitive beginning freshmen requirements. The community colleges provide access or opportunity for many students to obtain admission and complete bachelor's degree programs which would not have been open to them following graduation from high school. More than 70 percent of these students are successful at UIUC as measured by retention for four terms after transfer. The "success rate" is about seven percent more for transfers from four-year colleges and approximately 18 percent less than for native juniors who have already successfully completed two years at UIUC and in general were higher achievers in high school as measured by ACT composite and High School Percentile Rank.

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[32]Wermers, Research Memorandum 72-5, p. 21.

IV. Policy Considerations

The findings of this study demonstrate the improved quality of both community college transfers and four-year college transfers in 1977 over 1970 as measured by pre-transfer GPA, first term GPA, retention, and graduation. In general, these data support the conclusion that the use of current transfer admission policies and admission criteria and standards at UIUC is effective in the selection and admission of transfer students who are relatively successful in achieving their educational goals in comparison with the native juniors.

Even though the above conclusion is supported, there remain some problems which warrant further study and analysis regarding future policy considerations. For example, community college transfers continue to experience a drop of approximately .60 in grade point average when they transfer to UIUC; they recover only about one-half (.30) of this drop by the end of the second year after transfer. The four-year college transfers experience less than one-half as much transfer shock (-.28), and they recover and achieve only about .13 GPA below their pre-transfer level. This is, therefore, of much less concern. However, both groups achieve approximately at the "B" level during the fourth term after transfer, which is indicative of their improved level of performance of UIUC.

It is clear from this study and others that community college transfers have more problems with scholarship and achievement after transfer than four-year college transfers. Twelve percent, or one of each eight community college transfers, were ultimately dropped for academic reasons and never returned. An additional two percent left on probation, which implies academic problems. In total, one in seven community college transfers left the University and did not return because of academic difficulty. The comparable figure for four-year college transfers is eight percent (or one in 12), and approximately three percent for native juniors (1 in 33). Even the transfers who were dropped were

successful students before transfer, as demonstrated by a pre-transfer GPA of approximately 3.87 (B = 4.00) for community college transfers who were dropped, and a pre-transfer GPA of 3.76 (B = 4.00) for four-year transfers who were dropped. The major policy consideration is whether or not the University should attempt to reduce the relatively high number of community college transfers who are dropped after entering UIUC with "good" community college records and achieving below 3.0 GPA's at UIUC.

Another concern is the relatively low achievement of community college transfers in mathematics, biological sciences, and physical sciences at UIUC. It is possible that further study and analysis of the students who are dropped would reveal that lack of success in required mathematics, biology, chemistry, and physics courses is the greatest source of academic difficulty for community college students. If this proves to be the case, it may be appropriate to ask students to present evidence of minimum competency in those subject areas as a part of their admission credentials, or demonstrate competency on a placement exam after admission and before enrollment.

In conclusion, it is clear that UIUC has a successful transfer admission program. The findings and conclusions of this study suggest only that the system may need further refining in order to improve its effectiveness in selecting the best qualified transfer students available.

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Appendix A
Number, Grade Point Average, and Academic Status of Fall, 1977 Community College Transfer Students
by Institution of Last Attendance
Fall, 1977

College Code (1)	No. of Fall 1977 Transfers (2)	Mean Transfer GPA (3)	First Term GPA (4)	Drop in Mean GPA (5)	Academic Status[1]										Retention Ratio[2] (16)
					Grad.		Clear		Pro		Dropped		W/drawn		
					No. (6)	% (7)	No. (8)	% (9)	No. (10)	% (11)	No. (12)	% (13)	No. (14)	% (15)	
01	28	4.19	3.31	.87	0	0	18	65	4	14	4	14	20	7	.79
02	27	4.04	3.63	.41	0	0	20	74	2	7	4	15	1	4	.81
03	23	4.30	3.72	.58	0	0	19	83	4	17	0	0	0	0	1.00
04	10	3.93	3.24	.69	0	0	7	70	2	20	1	10	0	0	.90
05	17	4.17	3.20	.97	0	0	10	58	4	24	1	5	2	12	.82
06	7	4.52	4.01	.51	0	0	5	72	1	14	0	0	1	14	.86
07	32	4.21	3.86	.35	0	0	26	81	4	13	0	0	2	6	.94
08	21	4.28	3.54	.74	0	0	14	66	5	24	1	5	1	5	.90
09	12	4.53	3.33	1.20	0	0	8	66	1	9	2	16	1	9	.75
10	8	4.25	3.84	.41	0	0	7	88	0	0	1	12	0	0	.88
11	7	4.04	3.37	.67	0	0	2	29	4	57	1	14	0	0	.86
12	16	4.09	3.38	.71	0	0	10	63	5	31	0	0	1	6	.94
13	20	4.23	3.46	.77	0	0	14	70	3	15	1	5	2	10	.85
14	7	4.45	3.74	.71	0	0	6	86	0	0	0	0	1	14	.86
15	35	4.26	3.78	.48	0	0	30	86	4	11	0	0	1	3	.97
16	114	4.22	3.54	.68	0	0	74	66	20	18	10	8	10	8	.84
17	51	4.12	3.60	.52	0	0	36	71	13	25	1	2	1	2	.96
18	21	4.03	3.23	.80	0	0	12	57	9	43	0	0	0	0	1.00
19	10	4.08	3.43	.65	0	0	8	80	2	20	0	0	0	0	1.00
20	25	4.36	3.96	.40	0	0	21	84	4	16	0	0	0	0	1.00
21	13	4.25	3.42	.83	0	0	7	54	4	31	0	0	2	15	.85
22	22	4.33	3.84	.49	0	0	18	82	2	9	0	0	2	9	.91
23	5	4.54	3.71	.83	0	0	5	100	0	0	0	0	0	0	1.00
24	53	4.36	3.65	.71	0	0	42	79	8	15	2	4	1	2	.94
25	28	4.20	3.61	.59	0	0	21	75	3	11	2	7	2	7	.86

Appendix A (Cont.)
Number, Grade Point Average, and Academic Status of Fall, 1977 Community College Transfer Students
by Institution of Last Attendance
Fall, 1977

College Code (1)	No. of Fall 1977 Transfers (2)	Mean Transfer GPA (3)	First Term GPA (4)	Drop in Mean GPA (5)	Academic Status[1]										Retention Ratio[2] (16)
					Grad.		Clear		Pro		Dropped		W/drawn		
					No. (6)	% (7)	No. (8)	% (9)	No. (10)	% (11)	No. (12)	% (13)	No. (14)	% (15)	
26	29	4.15	3.80	.35	0	0	25	86	4	14	0	0	0	0	1.00
27	5	4.41	4.18	.23	0	0	5	100	0	0	0	0	0	0	1.00
28	12	4.12	3.54	.58	0	0	10	83	2	17	0	0	0	0	1.00
29	28	4.56	3.75	.81	0	0	24	86	2	7	1	3	1	4	.93
30	9	4.28	3.57	.71	0	0	7	78	1	11	1	11	0	0	.89
31	5	4.21	3.24	.97	0	0	3	60	1	20	0	0	1	20	.80
32	5	3.86	4.31	-.45	0	0	4	80	0	0	0	0	1	20	.80
33	5	3.90	2.25	1.65	0	0	0	0	1	20	1	20	3	60	.20
34	13	4.22	3.56	.66	0	0	9	69	4	31	0	0	0	0	1.00
35	8	4.19	3.62	.57	0	0	4	50	1	12	0	0	3	38	.63
36	22	4.22	3.65	.57	0	0	19	86	3	14	0	0	0	0	1.00
37	15	4.06	3.53	.53	0	0	11	73	3	20	0	0	1	7	.93
All CC	768	4.22	3.60	.62	0	0	561	73	130	17	34	4	43	6	.90
All 4-Yr.	676	4.17	3.89	.28	0	0	579	86	61	9	11	2	25	3	.95
All Cont. Jrs.	4220	3.99	4.03	-.04	0	0	3895	92	218	5	46	1	61	2	.97

[1]Percents are based on the number of transfer students enrolled in the Fall, 1977, term (Column 3)

[2]Retention Ratio: The proportion of total Fall, 1977 transfers which have graduated or completed the term on clear or probationary status.

Appendix B

Number, Grade Point Average, and Academic Status of Fall, 1977 Community College Transfer Students by Institution of Last Attendance Spring, 1978

College Code (1)	Number of Fall 1977 Transfers (2)	Number Re-enrolled Spring 1978 (3)	Mean Transfer GPA (4)	Second Term GPA (5)	Drop in Mean GPA (6)	Increase Over First Term (7)	Academic Status[1]										Retention Ratio[2] (18)
							Grad.		Clear		Pro		Dropped		W/drawn		
							No. (8)	% (9)	No. (10)	% (11)	No. (12)	% (13)	No. (14)	% (15)	No. (16)	% (17)	
01	28	21	4.20	3.87	.38	.39	0	0	18	86	2	9	0	0	1	5	.71
02	27	22	4.08	3.88	.20	.25	0	0	19	86	2	9	1	5	0	0	.78
03	23	22	4.28	3.49	.79	-.23	0	0	15	68	4	18	3	14	0	0	.83
04	10	9	3.99	3.89	.10	.65	0	0	9	100	0	0	0	0	0	0	.90
05	17	15	4.17	3.28	.89	.08	0	0	7	47	5	33	3	20	0	0	.71
06	7	6	4.51	3.99	.52	-.02	0	0	5	83	1	17	0	0	0	0	.86
07	32	29	4.22	4.03	.19	.17	2	7	25	86	2	7	0	0	0	0	.91
08	21	18	4.31	3.66	.65	.12	0	0	13	72	2	11	3	17	0	0	.71
09	12	8	4.61	3.58	1.03	.25	0	0	7	88	0	0	1	12	0	0	.58
10	8	7	4.43	4.00	.43	.16	0	0	7	100	0	0	0	0	0	0	.88
11	7	7	4.04	3.74	.30	.37	0	0	3	43	2	28	2	29	0	0	.71
12	16	15	4.06	3.34	.72	-.04	0	0	9	60	4	27	2	13	0	0	.81
13	20	18	4.16	3.60	.59	.14	0	0	17	94	1	6	0	0	0	0	.90
14	7	6	4.42	4.15	.27	.41	0	0	6	100	0	0	0	0	0	0	.86
15	35	33	4.23	3.97	.26	.19	0	0	30	19	1	3	1	3	1	3	.89
16	114	87	4.25	3.71	.54	.17	3	3	66	76	11	13	5	6	2	2	.70
17	51	46	4.13	3.72	.41	.12	0	0	38	83	5	11	3	6	0	0	.84
18	21	17	4.05	3.48	.57	.25	0	0	11	65	5	29	1	6	0	0	.76
19	10	10	4.09	3.52	.57	.09	0	0	7	70	2	20	0	0	1	10	.90
20	25	23	4.38	4.12	.26	.16	1	4	21	92	0	0	1	4	0	0	.88
21	13	11	4.25	3.80	.45	.38	0	0	7	64	3	27	0	0	1	9	.77
22	22	19	4.33	3.93	.40	.09	0	0	17	89	2	11	0	0	0	0	.86
23	5	5	4.54	4.02	.52	.31	0	0	4	80	1	20	0	0	0	0	1.00
24	53	50	4.36	3.83	.53	.18	1	2	41	82	5	10	2	4	1	2	.89
25	28	23	4.24	4.09	.15	.48	0	0	21	91	2	9	0	0	0	0	.82

Appendix B (Cont.)

Number, Grade Point Average, and Academic Status of Fall, 1977 Community College Transfer Students by Institution of Last Attendance

Spring, 1978

College Code (1)	Number of Fall 1977 Transfers (2)	Number Re-enrolled Spring 1978 (3)	Mean Transfer GPA (4)	Second Term GPA (5)	Drop in Mean GPA (6)	Increase Over First Term (7)	Academic Status[1] Grad. No. (8)	Grad. % (9)	Clear No. (10)	Clear % (11)	Pro No. (12)	Pro % (13)	Dropped No. (14)	Dropped % (15)	W/drawn No. (16)	W/drawn % (17)	Retention Ratio[2] (18)
26	29	28	4.15	3.83	.32	.03	0	0	22	79	4	14	1	4	1	3	.90
27	5	4	4.36	4.15	.21	-.03	0	0	4	100	0	0	0	0	0	0	.80
28	120	12	4.12	3.24	.88	-.30	0	0	8	66	2	17	2	17	0	0	.83
29	28	24	4.53	3.79	.74	.04	0	0	20	83	3	13	0	0	1	4	.82
30	9	8	4.36	3.81	.55	.24	0	0	7	88	0	0	1	12	0	0	.78
31	5	4	4.09	2.80	1.29	-.44	0	0	1	25	2	50	0	0	1	25	.60
32	5	4	3.96	4.65	+.69	.34	0	0	4	100	0	0	0	0	0	0	.80
33	5	1	3.69	2.57	1.12	.32	0	0	0	0	1	100	0	0	0	0	.20
34	13	13	4.22	3.73	.49	.17	1	8	8	62	3	23	1	7	0	0	.92
35	8	4	4.10	4.33	+.23	.71	0	0	3	75	0	0	0	0	1	25	.38
36	22	22	4.22	3.66	.56	.01	1	5	16	73	3	14	2	8	0	0	.91
37	15	14	4.07	3.60	.47	.07	0	0	12	86	1	7	1	7	0	0	.87
All CC	768	665	4.24	3.77	.47	.17	9	1	528	79	81	12	36	5	11	3	.80
All 4-Year	676	605	4.17	3.97	.20	.08	24	4	509	84	44	7	15	2	13	3	.85
All Cont. Jrs.	4220	4079	4.02	4.08	+.06	.05	257	6	3554	87	174	4	45	1	49	2	.94

[1]Percents are based on the number of transfer students enrolled in the spring, 1978, term (Column 3)

[2]Retention Ratio: The proportion of total fall, 1977, transfers which have graduated or completed the term on clear or probationary status.

Appendix C
Number, Grade Point Average, and Academic Status of Fall, 1977 Community College Transfer Students
by Institution of Last Attendance
Fall, 1978

College Code (1)	Number of Fall 1977 Transfers (2)	Number Re-enrolled Fall 1978 (3)	Mean Transfer GPA (4)	Third Term GPA (5)	Drop in Mean GPA (6)	Increase Over Second Term (7)	Academic Status[1] Grad. No. (8)	Grad. % (9)	Clear No. (10)	Clear % (11)	Pro. No. (12)	Pro. % (13)	Dropped No. (14)	Dropped % (15)	W/drawn No. (16)	W/drawn % (17)	Retention Ratio[2] (18)
01	28	17	4.21	3.66	.55	-.15	0	0	14	82	3	18	0	0	0	0	.61
02	27	17	4.21	4.03	.18	.15	1	6	15	88	0	0	1	6	0	0	.59
03	23	19	4.37	4.00	.37	.51	1	5	14	74	3	16	0	0	1	5	.78
04	10	8	4.00	3.14	.86	-.75	0	0	4	50	2	25	1	13	1	13	.60
05	17	12	4.18	3.46	.72	.18	0	0	7	58	2	17	2	17	1	8	.53
06	7	6	4.51	3.80	.71	-.19	0	0	5	83	1	17	0	0	0	0	.86
07	32	26	4.22	3.96	.26	-.07	1	4	22	85	3	11	0	0	0	0	.88
08	21	16	4.34	3.75	.59	.09	0	0	13	81	2	13	1	6	0	0	.71
09	12	7	4.58	3.66	.92	.08	0	0	6	86	1	14	0	0	0	0	.58
10	8	7	4.43	4.09	.34	.09	0	0	7	100	0	0	0	0	0	0	.88
11	7	5	4.17	4.06	.11	.32	0	0	5	100	0	0	0	0	0	0	.71
12	16	12	4.09	3.98	.11	.64	0	0	10	38	2	17	0	0	0	0	.75
13	20	17	4.29	3.55	.74	-.05	0	0	15	88	1	6	0	0	1	6	.80
14	7	6	4.41	3.94	.47	-.21	0	0	5	83	1	17	0	0	0	0	.86
15	35	28	4.22	4.05	.17	.08	3	11	24	86	1	3	0	0	0	0	.80
16	114	74	4.28	3.87	.41	.16	2	3	56	76	9	12	0	0	7	9	.61
17	51	45	4.13	3.70	.43	-.02	0	0	33	73	6	13	5	11	1	2	.76
18	21	15	4.08	3.48	.60	0	0	0	12	80	1	7	2	13	0	0	.62
19	10	9	4.03	3.57	.46	.05	0	0	8	89	1	11	0	0	0	0	.90
20	25	20	4.36	4.20	.16	.08	0	0	19	95	1	5	0	0	0	0	.84
21	13	11	4.29	3.72	.57	-.08	0	0	10	91	0	0	1	9	0	0	.77
22	22	18	4.33	3.99	.34	.06	0	0	17	94	0	0	1	6	0	0	.77
23	5	5	4.55	3.79	.76	-.23	0	0	4	80	1	20	0	0	0	0	1.00
24	53	44	4.39	3.97	.42	.14	1	2	37	84	2	5	2	5	2	5	.77
25	28	23	4.13	4.03	.10	-.06	0	0	20	87	0	0	1	4	2	9	.71

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Appendix D (Cont.)

Number, Grade Point Average, and Academic Status of Fall, 1977 Community College Transfer Students by Institution of Last Attendance
Spring, 1979

College Code (1)	Number of Fall, 1977 Transfers (2)	Number Re-enrolled Spring 1979 (3)	Mean Transfer GPA (4)	Fourth Term GPA (5)	Drop in Mean GPA (6)	Increase Over Third Term (7)	Academic Status[1] Grad. No. (8)	Grad. % (9)	Clear No. (10)	Clear % (11)	Pro No. (12)	Pro % (13)	Dropped No. (14)	Dropped % (15)	W/drawn No. (16)	W/drawn % (17)	Retention Ratio[2] (18)
26	29	21	4.21	3.97	.24	.05	8	38	10	48	3	14	0	0	0	0	.76
27	5	4	4.36	4.31	.05	.27	3	75	1	25	0	0	0	0	0	0	.80
28	12	8	4.07	3.61	.46	.09	1	13	6	75	1	12	0	0	0	0	.75
29	28	21	4.58	3.93	.65	.08	9	43	10	48	0	0	2	9	0	0	.71
30	9	7	4.43	4.26	.17	.68	3	43	4	57	0	0	0	0	0	0	.78
31	5	2	4.74	3.70	1.04	.10	0	0	2	100	0	0	0	0	0	0	.40
32	5	4	3.96	4.69	+.73	.19	2	50	2	50	0	0	0	0	0	0	.80
33	5	0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	.00
34	13	10	4.28	4.07	.21	-.02	5	50	5	50	0	0	0	0	0	0	.85
35	8	2	4.29	4.50	+.21	.55	0	0	2	100	0	0	0	0	0	0	.38
36	22	17	4.24	3.78	.46	-.08	10	59	6	35	1	6	0	0	0	0	.82
37	15	13	4.13	3.86	.27	.25	6	46	5	38	0	0	1	8	1	8	.73
All CC	768	539	4.27	3.96	.31	.11	252	47	234	43	26	5	19	3	9	2	.70
All 4-Yr.	676	484	4.20	4.07	.13	.08	190	39	268	55	13	3	6	1	7	1	.77
All Cont. Jrs.	4220	3229	4.07	4.11	+.04	--	2420	75	685	21	69	2	34	1	21	1	.88

[1] Percents are based on the number of transfer students enrolled in the spring, 1979 term (Column 3)

[2] Retention Ratio: The proportion of total fall, 1977, transfers which have graduated or completed the term on clear or probationary status.

Appendix C (Cont.)
Number, Grade Point Average, and Academic Status of Fall, 1977 Community College Transfer Students
by Institution of Last Attendance
Fall 1978

College Code (1)	Number of Fall 1977 Transfers (2)	Number Re-enrolled Fall 1978 (3)	Mean Transfer GPA (4)	Third Term GPA (5)	Drop in Mean GPA (6)	Increase Over Second Term (7)	Academic Status[1] Grad. No. (8)	Grad. % (9)	Clear No. (10)	Clear % (11)	Pro No. (12)	Pro % (13)	Dropped No. (14)	Dropped % (15)	W/drawn No. (16)	W/drawn % (17)	Retention Ratio[2] (18)
26	29	23	4.17	3.92	.25	.09	1	4	19	38	2	9	1	4	0	0	.76
27	5	4	4.36	4.04	.32	-.11	0	0	4	100	0	0	0	0	0	0	.80
28	12	10	4.09	3.52	.57	.28	1	10	8	80	0	0	1	10	0	0	.75
29	28	23	4.55	3.85	.70	.06	1	4	19	83	3	13	0	0	0	0	.82
30	9	7	4.43	3.58	.85	-.23	0	0	7	100	0	0	0	0	0	0	.78
31	5	2	4.74	3.60	1.14	.80	0	0	1	50	1	50	0	0	0	0	.40
32	5	4	3.96	4.50	+.54	-.15	0	0	4	100	0	0	0	0	0	0	.80
33	5	1	3.96	2.50	1.19	-.07	0	0	0	0	0	0	1	100	0	0	.20
34	13	10	4.28	4.09	.19	.36	0	0	8	80	2	20	0	0	0	0	.85
35	8	3	4.27	3.95	.32	-.38	1	33	1	33	1	33	0	0	0	0	.38
36	22	17	4.24	3.86	.38	.20	0	0	15	88	2	12	0	0	0	0	.82
37	15	13	4.13	3.16	.52	.01	0	0	11	85	2	15	0	0	0	0	.87
All CC	768	584	4.26	3.85	.41	.08	13	2	479	82	56	10	20	3	16	3	.73
All 4-Yr.	676	528	4.19	3.99	.20	.02	27	5	453	86	31	6	9	2	8	1	.79
All Cont. Jrs.	4220	3624	4.05	4.11	+.06	.03	273	7	3150	87	132	4	25	1	44	1	.90

[1]Percents are based on the number of transfer students enrolled in the Fall, 1978 term (Column 3)

[2]Retention Ratio: The proportion of total fall, 1977, transfers which have graduated or completed the term on clear or probationary status.

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Appendix D

Number, Grade Point Average, and Academic Status of Fall, 1977 Community College Transfer Students by Institution of Last Attendance Spring, 1979

College Code (1)	Number of Fall, 1977 Transfers (2)	Number Re-enrolled Spring 1979 (3)	Mean Transfer GPA (4)	Fourth Term GPA (5)	Drop in Mean GPA (6)	Increase Over Third Term (7)	Academic Status[1] Grad. No. (8)	Grad. % (9)	Clear No. (10)	Clear % (11)	Pro No. (12)	Pro % (13)	Dropped No. (14)	Dropped % (15)	W/drawn No. (16)	W/drawn % (17)	Retention Ratio[2] (18)
01	28	17	4.21	3.73	.48	.07	5	29	10	59	1	6	1	6	0	0	.57
02	27	15	4.27	4.07	.20	.04	7	47	6	40	0	0	1	7	1	6	.52
03	23	18	4.36	3.73	.63	-.27	7	39	8	44	2	11	1	6	0	0	.78
04	10	6	4.18	3.79	.39	.65	3	50	2	33	1	17	0	0	0	0	.60
05	17	8	4.15	3.70	.45	.24	3	38	3	37	2	25	0	0	0	0	.47
06	7	6	4.51	3.61	.90	-.19	2	33	2	33	1	17	1	17	0	0	.71
07	32	24	4.24	4.18	.06	.22	10	42	13	54	0	0	0	0	1	4	.81
08	21	16	4.32	3.85	.47	.10	8	50	6	38	1	6	1	6	0	0	.71
09	12	6	4.63	4.12	.51	.46	4	67	2	33	0	0	0	0	0	0	.50
10	8	7	4.43	3.90	.53	-.19	4	57	3	43	0	0	0	0	0	0	.88
11	7	5	4.17	4.35	+.18	.29	3	60	2	40	0	0	0	0	0	0	.71
12	16	12	4.09	3.89	.20	-.09	5	42	5	42	2	16	0	0	0	0	.75
13	20	16	4.25	3.76	.49	.21	12	75	3	19	1	6	0	0	0	0	.80
14	7	6	4.41	4.19	.22	.25	4	67	2	33	0	0	0	0	0	0	.86
15	35	25	4.22	3.97	.25	-.08	15	60	10	40	0	0	0	0	0	0	.80
16	114	69	4.29	3.80	.49	-.07	24	35	31	45	6	9	6	8	2	3	.58
17	51	39	4.15	3.96	.19	.26	11	28	26	67	2	5	0	0	0	0	.76
18	21	13	4.13	3.72	.41	.24	7	54	5	38	1	8	0	0	0	0	.62
19	10	9	4.03	3.79	.24	.22	4	44	5	56	0	0	0	0	0	0	.90
20	25	20	4.36	4.37	+.01	.17	10	50	10	50	0	0	0	0	0	0	.84
21	13	10	4.34	3.86	.48	.14	5	50	4	40	0	0	0	0	1	10	.69
22	22	18	4.33	4.00	.33	.01	11	62	5	28	0	0	1	5	1	5	.73
23	5	5	4.55	4.01	.54	.22	2	40	2	40	0	0	1	20	0	0	.80
24	53	40	4.38	4.11	.27	.14	23	58	13	33	1	2	2	5	1	2	.74
25	28	20	4.21	4.31	+.10	.28	16	80	3	15	0	0	0	0	1	5	.68